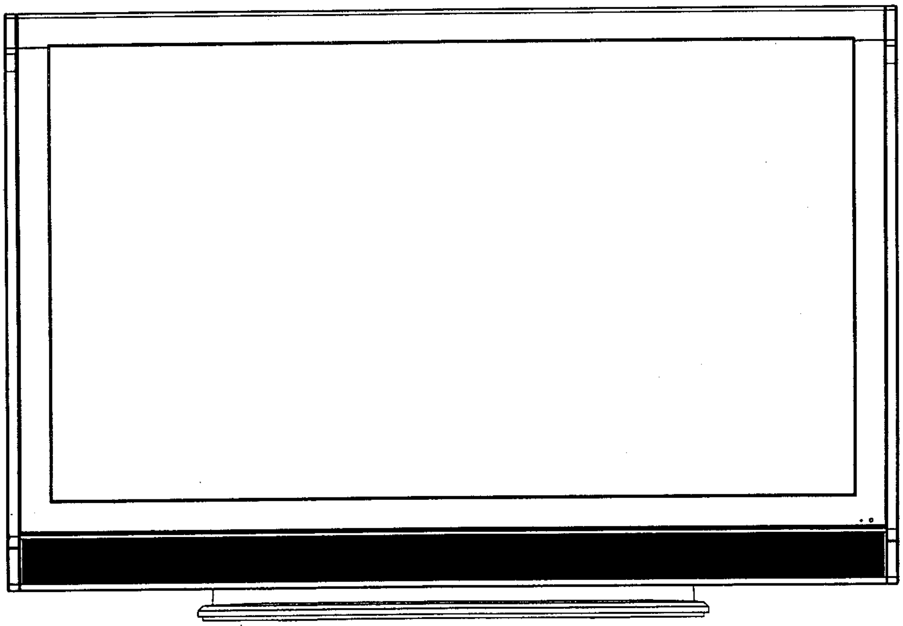
SERVICE MANUAL

ORION

TV-50127

50" DIGITAL PLASMA COLOR TELEVISION



ORIGINAL
CHASSIS CODE A

Best. Nr. SM50127

Design and specifications are subject to change without notice.

SERVICING NOTICES ON CHECKING

1. KEEP THE NOTICES

As for the places which need special attentions, they are indicated with the labels or seals on the cabinet, chassis and parts. Make sure to keep the indications and notices in the operation manual.

2. AVOID AN ELECTRIC SHOCK

There is a high voltage part inside. Avoid an electric shock while the electric current is flowing.

3. USE THE DESIGNATED PARTS

The parts in this equipment have the specific characters of incombustibility and withstand voltage for safety. Therefore, the part which is replaced should be used the part which has the same character.
Especially as to the important parts for safety which is indicated in the circuit diagram or the table of parts as a ⚠ mark, the designated parts must be used.

4. BE CAREFUL WITH THE PDP PANEL

1. When you handle the PDP Filter you must wear the gloves twice, because, you are to avoid soil it by your sweat and dust.
2. When you lift the PDP Filter you should hold it with the palm of your hand.
   Don't pick up it with your fingers.
3. The back side of PDP Filter tends to damaged. Since there is no coating.
   Therefore, it put into the packing box at the time of delivery, without piling up even at the time of unused.
   Also, when you take out it from a packing box, be careful of the rubbing.
4. When the surface becomes dirty, wipe it with a soft cloth as you draw a circle.
   When it is dirty hardly, wipe it with a cloth ethanol infiltrated.
   Don't use ethanol for the back side.
5. Do not apply it to direct sunshine so that the characteristic may change.
6. When you inspect the surface (the scratch, the dirt and the air bubble), use the fluorescent light.
7. When you use SCREW DRIVER and SCREW, be careful of a metallic powder being mixed.
8. Do not damage the PDP Module with a DRIVER.
9. Do Handling with the PDP Module by 2 persons.
10. There is a step difference between the cover and PDP Module.
    So, when you remove the screws, place a cushion on it so that the PDP Module is not being scratched.
    Then remove the screws carefully.
11. When you remove the cover, do not scratch the FPC on both ends of PDP Module.
12. Hold the four ends holder and be careful not to touch the glass area.
13. Take care for the damage of vacuum exhaust pipe due to a collision.
14. Moisture condensation may damage the PDP Module.
    So, leave it for 48 hours at the service room.

5. PUT PARTS AND WIRES IN THE ORIGINAL POSITION AFTER ASSEMBLING OR WIRING

There are parts which use the insulation material such as a tube or tape for safety, or which are assembled in the condition that these do not contact with the printed board. The inside wiring is designed not to get closer to the pyrogenic parts and high voltage parts. Therefore, put these parts in the original positions.

6. PERFORM A SAFETY CHECK AFTER SERVICING

Confirm that the screws, parts and wiring which were removed in order to service are put in the original positions, or whether there are the portions which are deteriorated around the serviced places serviced or not. Check the insulation between the antenna terminal or external metal and the AC cord plug blades. And be sure the safety of that.

(INSULATION CHECK PROCEDURE)

1. Unplug the plug from the AC outlet.
2. Remove the antenna terminal on TV and turn on the TV.
3. Insulation resistance between the cord plug terminals and the eternal exposure metal **[Note 2]** should be more than 2.5M ohm by using the 500V insulation resistance meter **[Note 1]**.
4. If the insulation resistance is less than 2.5M ohm, the inspection repair should be required.

[Note 1]

If you have not the 500V insulation resistance meter, use a Tester.

[Note 2]

External exposure metal: Antenna terminal
Screw
21pin jack
Side RCA jack
Rrar RCA jack
Headphone jack

BBE DIGITAL

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HOW TO ORDER PARTS

Please include the following informations when you order parts. (Particularly the CHASSIS CODE.)

1. MODEL NUMBER and CHASSIS CODE
   YOU can find it in the back of your unit.
2. PART NO. and DESCRIPTION
   You can find it in your SERVICE MANUAL.

IMPORTANT

When you exchange IC and Transistor with a heat sink, apply silicon grease (YG6260M) on the contact section of the heat sink. Before applying new silicon grease, remove all the old silicon grease.
(Old grease may cause damage to the IC and Transistor).

PANEL LOCK

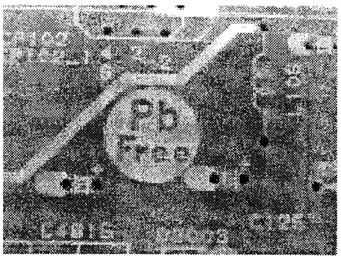
To unlock the Password of Panel Lock, please follow the steps below.

1. Turn Unit ON.
2. Press and hold the 'VOLUME DOWN' key on the front panel for more than 10 seconds.
3. The Panel Lock has now been cleared.
4. Press and hold the 'VOLUME DOWN' key on the front panel.
5. Simultaneously press and hold the '0' key on the remote control unit.
6. Hold both keys for more than 2 seconds.
7. The Password of Panel Lock has now been cleared.

ABOUT LEAD FREE SOLDER (PbF)

Distinction of PbF PCB:

PCBs (manufactured) using lead free solder will have a PbF printing on the PCB.
(Please refer to figures.)



Caution:

- Pb free solder has a higher melting point than standard solder;
  Typically the melting point is 86°F~104°F(30°C~40°C) higher.
  Please use a soldering iron with temperature control and adjust it to 650°F ± 20°F (350°C ± 10°C).
  In case of using high temperature soldering iron, please be careful not to heat too long.
- Pb free solder will tend to splash when heated too high (about 1100°F/ 600°C).
- All products with the printed circuit board with PbF printing must be serviced with lead free solder.
  When soldering or unsoldering, completely remove all of the solder from the pins or solder area, and be sure to heat the soldering points with the lead free solder until it melts sufficiently.

Recommendations

Recommended lead free solder composition is Sn-3.0Ag-0.5Cu.

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GENERAL SPECIFICATIONS

G-1	**TV System**	PDP		PDP Size / Visual Size	49.95 inch / 1268.7 mmV
				Number of Pixels(H x V)	1366(H) x 768(V)
		Color System			PAL/SECAM
		Speaker			4Speaker
				Position	Front
			Main	Size	2.2 x 5.0 inch
				Impedance	4 ohm
			Tweeter	Size	2.0 inch
				Impedance	8 ohm
		Sound Output		MAX	10W + 10W
				10%(Typical)	---
		AV Input Receivable		NTSC3.58	Yes
				NTSC4.43	Yes
				PAL60	Yes
G-2	**Tuning System**	Broadcasting System			U.K., I.R., CCIR, FRENCH System B/G, D/K, I/I, L
		Tuner and Receive CH		System	1Tuner
				Destination	UK, I.R., CCIR Hyper+France CATV
				CH Coverage	IreE2~E4,X~Z+2,S1~S10,E5~E12, S11~S41,E21~E69
		Intermediate Frequency			PAL/SECAM(U&VH)/SECAM(VL)
				Picture(FP)	38.9/38.9/33.9MHz
				Sound(FS)	33.4/32.9/32.4/40.4MHz
				FP-FS	5.5/6.0/6.5/6.5MHz
		Auto Tuning Method			ALL Band (Not C.C.I.R. CH Plan)
		Preset CH			80
		Stereo/Dual TV Sound			NICAM/A2 Dual
		Tuner Sound Muting			Yes
G-3	**Power**	Power Source		AC	230V AC 50Hz
				DC	---
		Power Consumption		at AC	450 W at AC 230 V 50 Hz
				at DC	--
				Stand by (at AC)	2 W at 230V 50Hz
				Per Year	-- kWh/Year
		Protector		Power Fuse	Yes
				Safety Circuit	Yes
				IC Protector(Micro Fuse)	No
G-4	**Regulation**			Safety	CE(EN60065:98)
				Radiation	CE
				X-Radiation	---
G-5	**Temperature**			Operation	+5oC ~ +40oC
				Storage	-20oC ~ +60oC
G-6	**Operating Humidity**				Less than 80% RH
G-7	**OSD Language**				English French Spanish German Italian Russian
G-8	**Clock and Timer**	Sleep Timer		Max Time	120 Min
				Step	10 Min
		On/Off Timer		Program(On Timer / Off Timer)	No
		Wake Up Timer			No
		Timer Back-up (at Power Off Mode)		more than	-- Min Sec

GENERAL SPECIFICATIONS

G-9	**Remote Control**	Unit		RC-MM	
		Glow in Dark Remocon		Yes	
		Remocon Format		ORION	
		Format		NEC	
		Custom Code		80-63 h	
		Power Source	Voltage(D.C)	3V	
			UM size x pcs	UM-3 x 2 pcs	
		Total Keys		33	Keys
		Keys	Power (Stand By)	Yes	
			1	Yes	
			2	Yes	
			3	Yes	
			4	Yes	
			5	Yes	
			6	Yes	
			7	Yes	
			8	Yes	
			9	Yes	
			0	Yes	
			CH Up		No
			CH Down		No
			Volume Up / Right	Yes	
			Volume Down / Left	Yes	
			Quick View		No
			Sleep	Yes	
			Display (CH Call)	Yes	
			Normal	Yes	
			Menu	Yes	
			Enter	Yes	
			Mute	Yes	
			Dolby Virtual On/Off		No
			Picture Size	Yes	
			Auto		No
			Position		No
			Fine Tuning +		No
			Fine Tuning -		No
			Tone 1/2		No
			Input Select	Yes	
		T'TEXT Keys	TEXT / MIX / TV	Yes	
			CH Up / Page Up / Up	Yes	
			CH Down / Page Down / Down	Yes	
			Red	Yes	
			Green	Yes	
			Yellow	Yes	
			Cyan	Yes	
			F/T/B	Yes	
			Reveal / Skip	Yes	
			Display Cancel		No
			Reset		No
			Reset / Tone 1/2	Yes	
			Hold / Status	Yes	
			Sub Page / Quick View	Yes	

GENERAL SPECIFICATIONS

G-10	**Features**	Picture Setting(TV)	Brightness , Contrast , Color	Yes
			Tint	Yes
			Sharpness	Yes
			DNR	Yes
			Color Temperature	Yes
			Blue Back	Yes
		Picture Setting(PC)	BRIGHTNESS , CONTRAST	Yes
			HOR POSITION , VER POSITION	Yes
			PHASE , CLOCK	Yes
			AUTO ADJUST	No
			RED , GREEN , BLUE	Yes
			WXGA INPUT	Yes
			WVGA INPUT	Yes
		Audio(TV)	Nicam	Yes
			Tone Control (Bass/Treble/Balance)	Yes
			Surround	No
			BBE	Yes
			Speaker	Yes
			HDMI	Yes
		Audio(PC)	Tone Control (Bass/Treble/Balance)	Yes
			Surround	No
			BBE	Yes
			Speaker	Yes
		Setup	Auto Tuning	Yes
			Manual Tuning	Yes
			CH Allocation	Yes
			BACKLIGHT	No
			Language	Yes
			Text Language	Yes
			Position (Vertical Position)	Yes
			AUTO 4:3 DEFAULT	Yes
			AV2 Output	Yes
			AV2 Input	Yes
			AV Color	Yes
			Inversion	No
			Full White	Yes
			Screen Saver	Yes
			Static Image	Yes
			Black Side Panel	Yes
		Option	On Timer	No
			Off Timer	No
			Panel Lock	Yes
		Variable Audio Out		Yes
		Auto Shut Off		Yes
		BBE		Yes(Digital)
		Auto Search		Yes
		CH Allocation		Yes
		Channel Lock		No
		Just Clock Function		No
		Game Position		No
		CH Label		No
		T'Text		Yes
			Text type	Fastext / Toptext
			Text Language	English , French, Swedish, Hungarian Finnish, Turkish, German, Dutch Portuguese, Spanish, Italian, Greek Polish, Russian, Bulgarian, Serbian, Croatian, Slovene, Czech, Slovakian, Rumanian.
		Wide Mode		Yes
		Picture Scroll		No
		DNR		Yes 3D
		Comb Filter		Yes 5 Lines
		Surround		No
		Backlight		No
		Stable Sound		No
		PFC(Power Factor circuit)		Yes
		Auto Set Up		No
		Power On Memory		Yes
		Hotel Lock		No
		PC Monitor Input		Yes
		Freeze frame		No
		HD-Ready		Yes

GENERAL SPECIFICATIONS

		PC Monitor Input		Yes
			VGA (640x480)	Yes (60Hz)
			VGA (720x400)	No
			WVGA (848x480)	Yes (60Hz)
			SVGA (800x600)	Yes (60Hz)
			XGA (1024x768)	Yes (60Hz)
			WXGA (1280x768)	Yes (60Hz)
			WXGA (1280x720)	Yes (60Hz)
			WXGA (1360x768)	Yes (60Hz)
			SXGA (1280x1024)	No
		HDMI Input		Yes
			VGA (640x480)	Yes (60Hz)
			720x480i (4:3)	Yes (60Hz)
			720x480i (16:9)	Yes (60Hz)
			720x480p (4:3)	Yes (60Hz)
			720x480p (16:9)	Yes (60Hz)
			720x576i (4:3)	Yes (50Hz)
			720x576i (16:9)	Yes (50Hz)
			720x576p (4:3)	Yes (50Hz)
			720x576p (16:9)	Yes (50Hz)
			1280x720p	Yes (50/60Hz)
			1920x1080i	Yes (50/60Hz)
		Component Input		Yes
			720x480i (4:3)	Yes (60Hz)
			720x480i (16:9)	Yes (60Hz)
			720x480p (4:3)	Yes (60Hz)
			720x480p (16:9)	Yes (60Hz)
			720x576i (4:3)	Yes (50Hz)
			720x576i (16:9)	Yes (50Hz)
			720x576p (4:3)	Yes (50Hz)
			720x576p (16:9)	Yes (50Hz)
			1280x720p	Yes (50/60Hz)
			1920x1080i	Yes (50/60Hz)
G-11	**Accessories**	Owner's Manual	Language	German/Czech/French/Dutch
			w/Guarantee Card	Yes
		Remote Control Unit		Yes
		Rod Antenna		No
			Poles	-
			Terminal	-
		Loop Antenna (W/ Antenna Change Plug)		No
			Terminal	-
		U/V Mixer		No
		DC Car Cord (Center+)		No
		Guarantee Card		No
		Warning Sheet		No
		Circuit Diagram		No
		Antenna Change Plug		No
		Service Facility List		No
		Important Safeguard		No
		Dew/AHC Caution Sheet		No
		Quick Set-up Sheet		No
		Battery		Yes
			UM size x pcs	UM-3 x 2 pcs
			OEM Brand	No
		AC Adapter		No
		AC Cord (for AC Adapter)		No
		AC Cord		Yes
		AV Cord (2Pin-1Pin)		No
		HDMI-DVI Cable		Yes
		Registration Card		No
		300 ohm to 75 ohm Antenna Adapter		No

GENERAL SPECIFICATIONS

G-12	**Interface**	Switch		Sub Power (Tact)	Yes
				System Select	No
				Main Power SW	No
				Channel Up/Menu Up	Yes
				Channel Down/Menu Down	Yes
				Volume Up/Menu >	Yes
				Volume Down/Menu <	Yes
				Input Select	Yes
				Menu	No
				Main Power SW	Yes
		Indicator		Power / Stand-by	Yes(GREEN / RED)
				On Timer	No
		Terminals	Rear	Video Input	No
				Audio Input	No
				S- Input	No
				Video Output	No
				Audio Output	RCA x 2(Variable L, R)
				Component In	RCA x 3
				Audio Input (Component In use)	RCA x 2(L/MONO, R)
				Other Terminal	No
				Euro Scart (21Pin)	3Scart
				HDMI Input	Yes
				Audio Input (HDMI/DVI In use)	RCA x 2 (L/MONO, R)
				Sub Woofer Out	No
				PC Monitor Input (D-Sub)	Yes
				Audio Input	Mini Jack x 1(Stereo)
				Diversity	No
				Ext Speaker	No
				DC Jack 12V(Center +)	No
				VHF/UHF Antenna Input	DIN Type
				AC Inlet	Yes
			Side	Video Input	RCA x 1
				Audio Input	RCA x2(L/MONO,R)
				S- Input	Yes
				Other Terminal	Headphone
G-13	**Set Size**			Approx. W x D x H (mm)	1,255 x 411 x 869
				w/o Stand Approx. W x D x H (mm)	1,255 x 125 x 820
G-14	**Weight**			Net (Approx.)	48.5kg (106.9 lbs)
				Net w/o Stand (Approx.)	38.5kg (84.9 lbs)
				Gross (Approx.)	55.5kg (122.4 lbs)
G-15	**Carton**		Master Carton		No
				Content	--- Sets
				Material	--- / ---
				Dimensions W x D x H(mm)	---
				Description of Origin	---
			Gift Box	Material	Double/Brown
				Dimensions W x D x H(mm)	1,360 x 521 x 979
				Description of Origin	No
			Drop Test		Natural Dropping At 1 Corner / 3 Edges / 6 Surfaces
				Height (cm)	25
			Container Stuffing		68 Sets/40' container
G-16	**Material**		Cabinet	Cabinet Front	ABS 94HB
				Cabinet Rear	Steel
			PCB	Non-Halogen	No
				Eyelet	Yes
G-17	**Environment**		Environmental standard requirement		Green procurement of ORION
			Pb-free		Phase3(Phase3A)
			WEEE		Yes

DISASSEMBLY INSTRUCTIONS

1. EXCHANGE METHOD OF PDP MODULE

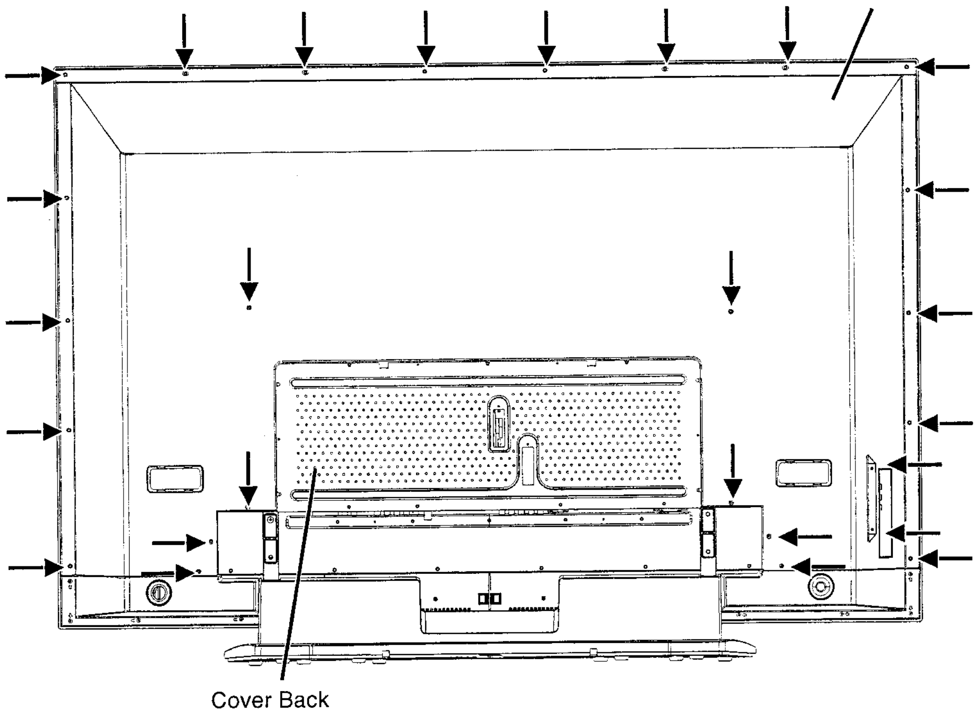
NOTE

1. Do handling with the PDP Module by 2 persons.

REMOVAL METHOD OF PDP MODULE

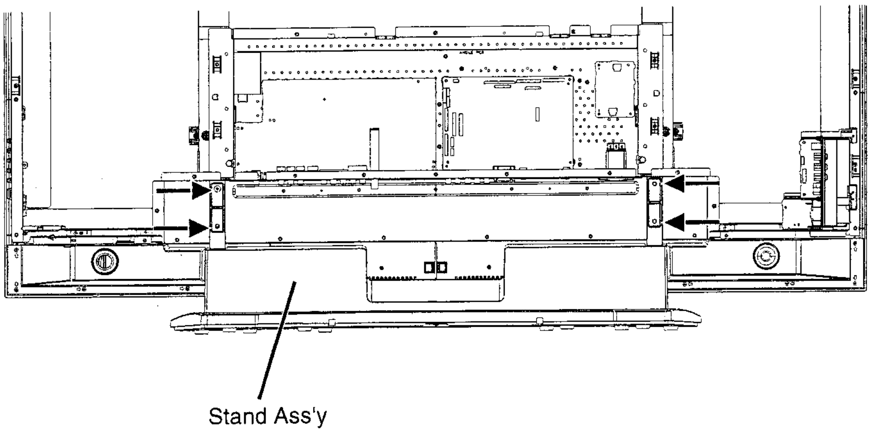
1-1: CABINET BACK/COVER BACK

1. Remove the screw.
2. Remove the Cabinet Back and Cover Back.



1-2: STAND ASS'Y

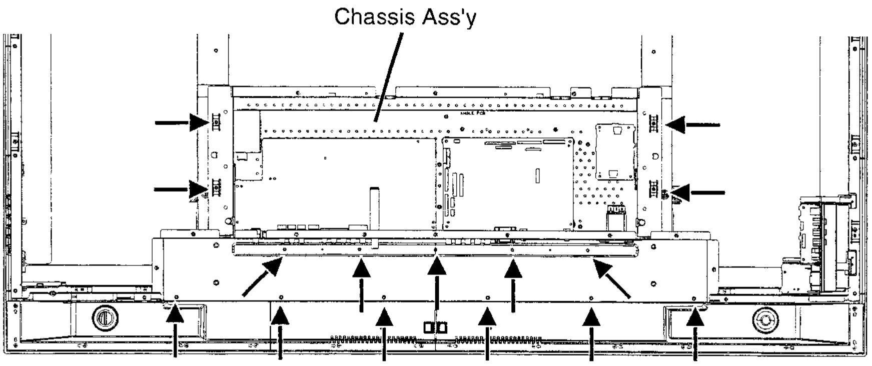
1. Spread a sheet on the plane table and place the PDP Module carefully with the panel face down.
2. Remove the screw.
3. Remove the Stand Ass'y.



DISASSEMBLY INSTRUCTIONS

1-3: CHASSIS BLOCK

1. Disconnect the connector.
2. Remove the screw.
3. Remove the Chassis Ass'y.


Chassis Ass'y

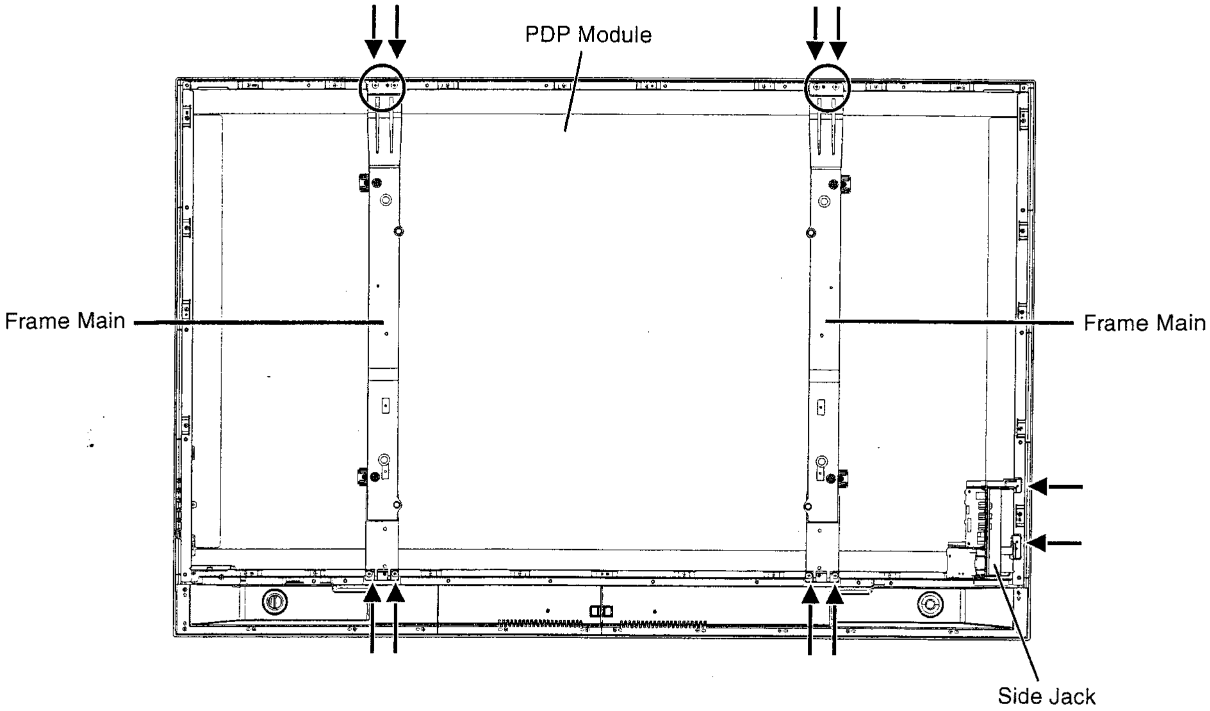
1-4: PDP MODULE

1. Remove the screw.
2. Remove the Side Jack.
3. Hold the Frame Main carefully and remove the PDP Module.

NOTE

1. When removing the PDP Module, raise the cushion carefully so that you do not scratch the face.

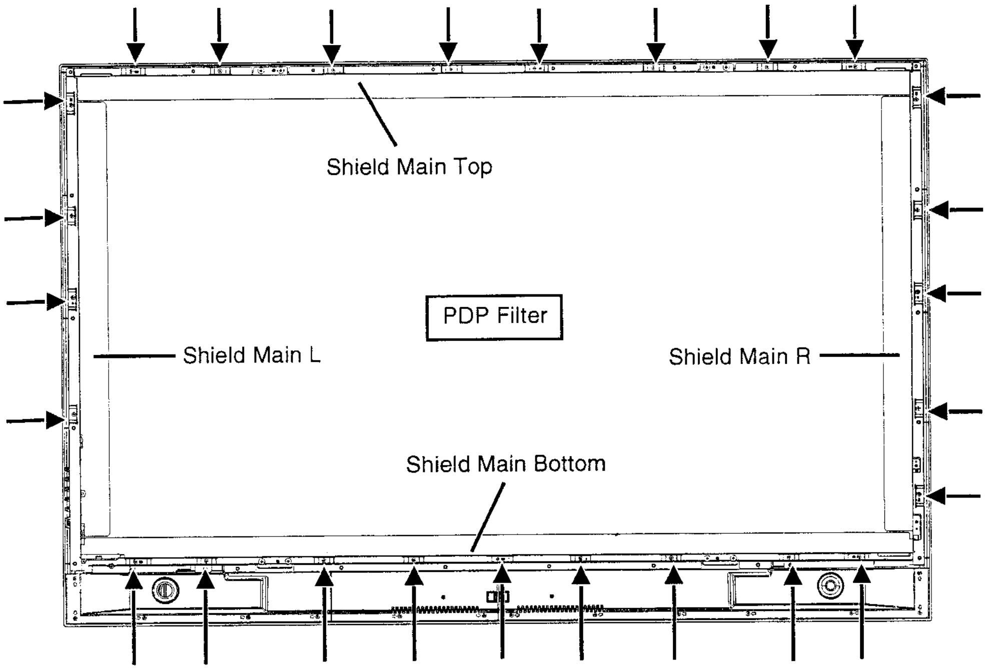
Raise the cushion.


PDP Module
Frame Main
Frame Main
Side Jack

DISASSEMBLY INSTRUCTIONS

1-5: PDP FILTER

1. Remove the screw.
2. Remove the Shield Main.
3. Remove the PDP Filter.


Shield Main Top
PDP Filter
Shield Main L
Shield Main R
Shield Main Bottom

DISASSEMBLY INSTRUCTIONS

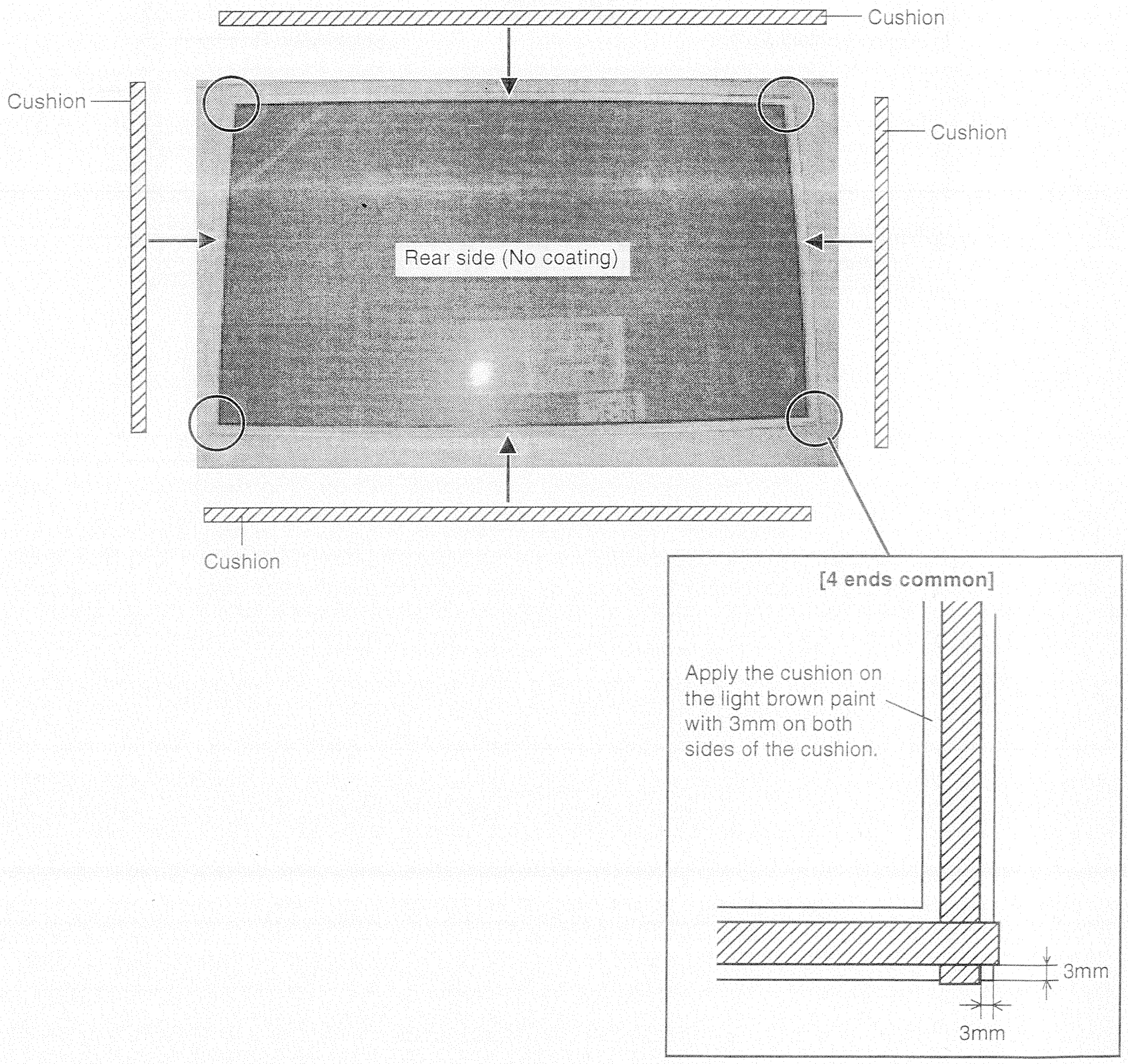
INSTALLATION METHOD OF PDP MODULE

NOTES FOR NEW PDP FILTER HANDLING

1. When you handle the PDP Filter, you must wear gloves to avoid soiling it with sweat and dust.
2. When you lift the PDP Filter, use the palm of your hand. Don't pick it up with your fingers.
3. The back side of the PDP Filter tends to get damaged, since there is no coating. Therefore, it needs to be put into the packing box at the time of delivery, even if it is not being used at the time. Also, when you take it out of the packing box, be careful not to rub the appearance.
4. When the surface becomes dirty, use a cloth which is soft and dust free and wipe it in a circular motion.
   When very dirty, lightly use alcohol on the cloth to wipe. Do not use alcohol for the back side.
5. Do not apply it to direct sunlight, the characteristics may change.
6. When you inspect for scratches and dirt, use a light to check for air bubbles on the PDP Filter surface.

1-6: PDP FILTER (PREPARATION)

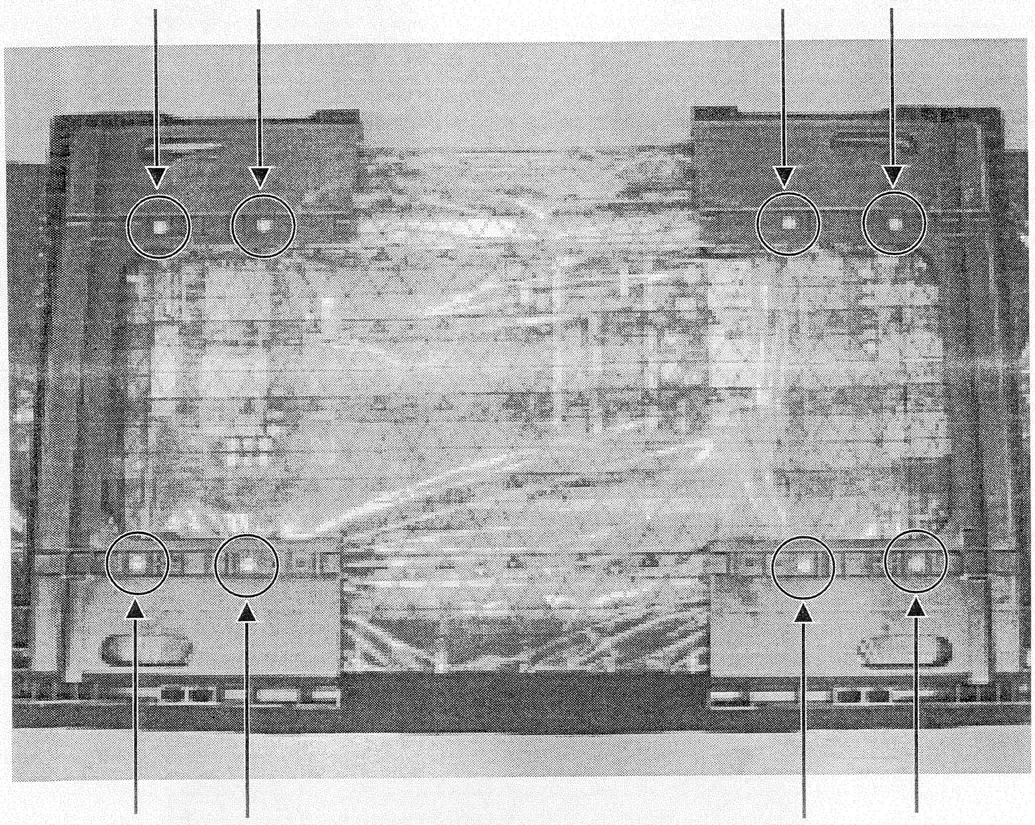
1. Fix the cushion. (Order the cushion new.)

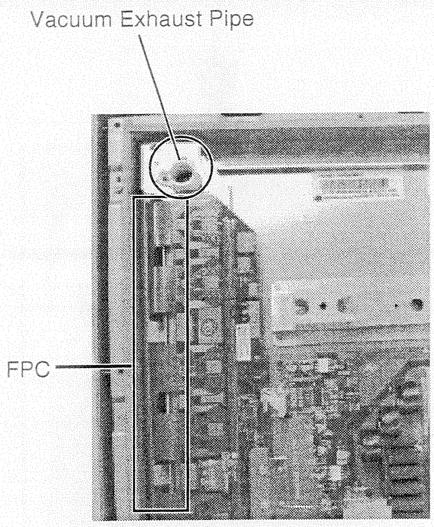

Cushion
Cushion
Cushion
Rear side (No coating)
Cushion
[4 ends common]
Apply the cushion on the light brown paint with 3mm on both sides of the cushion.
3mm
3mm

DISASSEMBLY INSTRUCTIONS

NOTES FOR NEW PDP MODULE HANDLING

1. Handle the PDP Module with 2 people.
2. There is a step difference between the cover and the PDP Module, so when you remove the screws, place a cushion on it to keep the PDP Module from being scratched. Then remove the screws carefully.
3. When you remove the cover, do not scratch the FPC on both ends of PDP Module.
4. Hold all four ends of the holder and be careful not to touch the glass area.
5. Be careful not to damage the vacuum exhaust pipe.
6. Moisture condensation may damage the PDP Module, so leave it in the service room for 48 hours.
7. Reuse the cover, vinyl sheet and screws when returning the PDP Module.

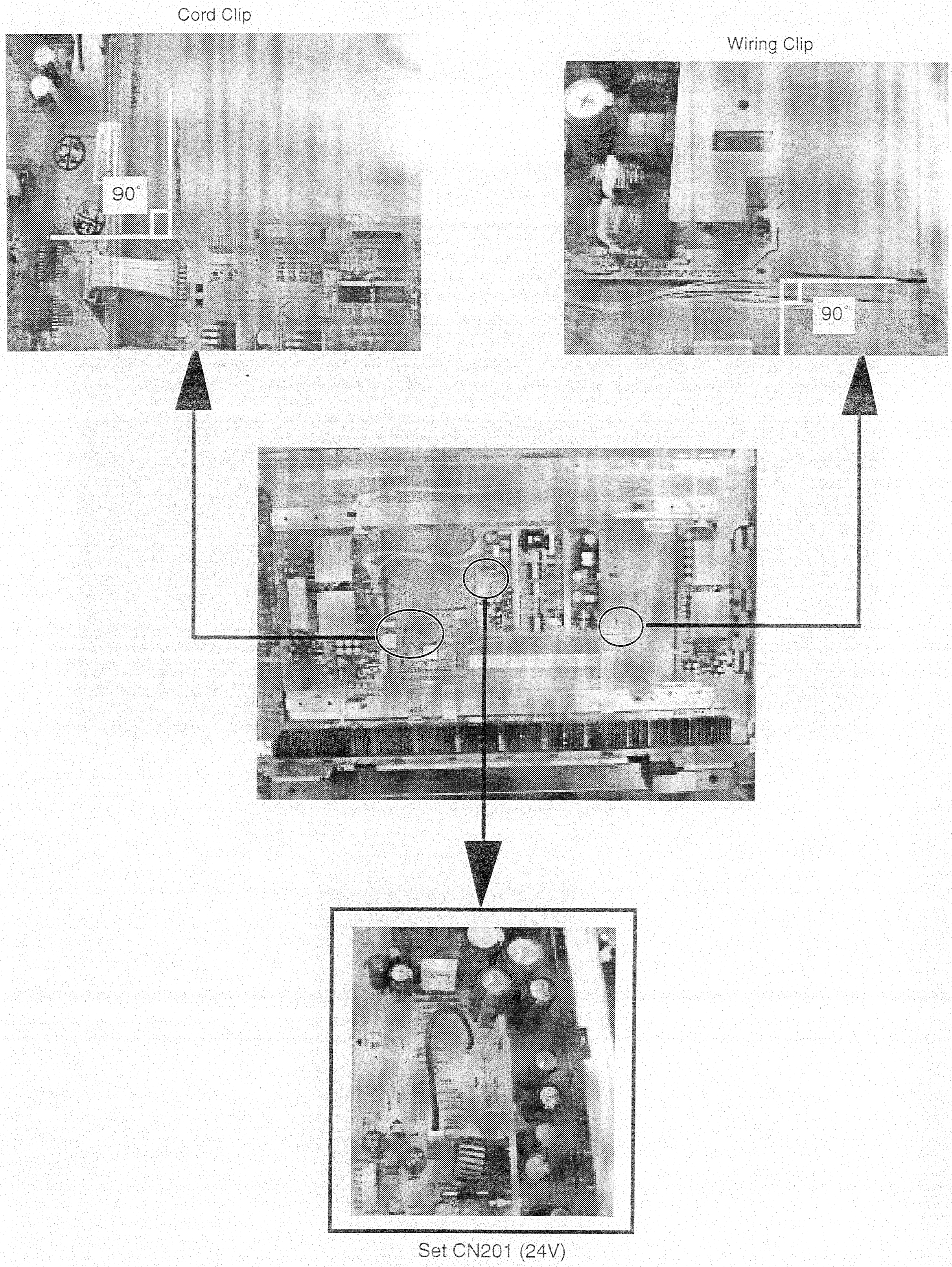




DISASSEMBLY INSTRUCTIONS

1-7: PDP MODULE (PREPARATION)

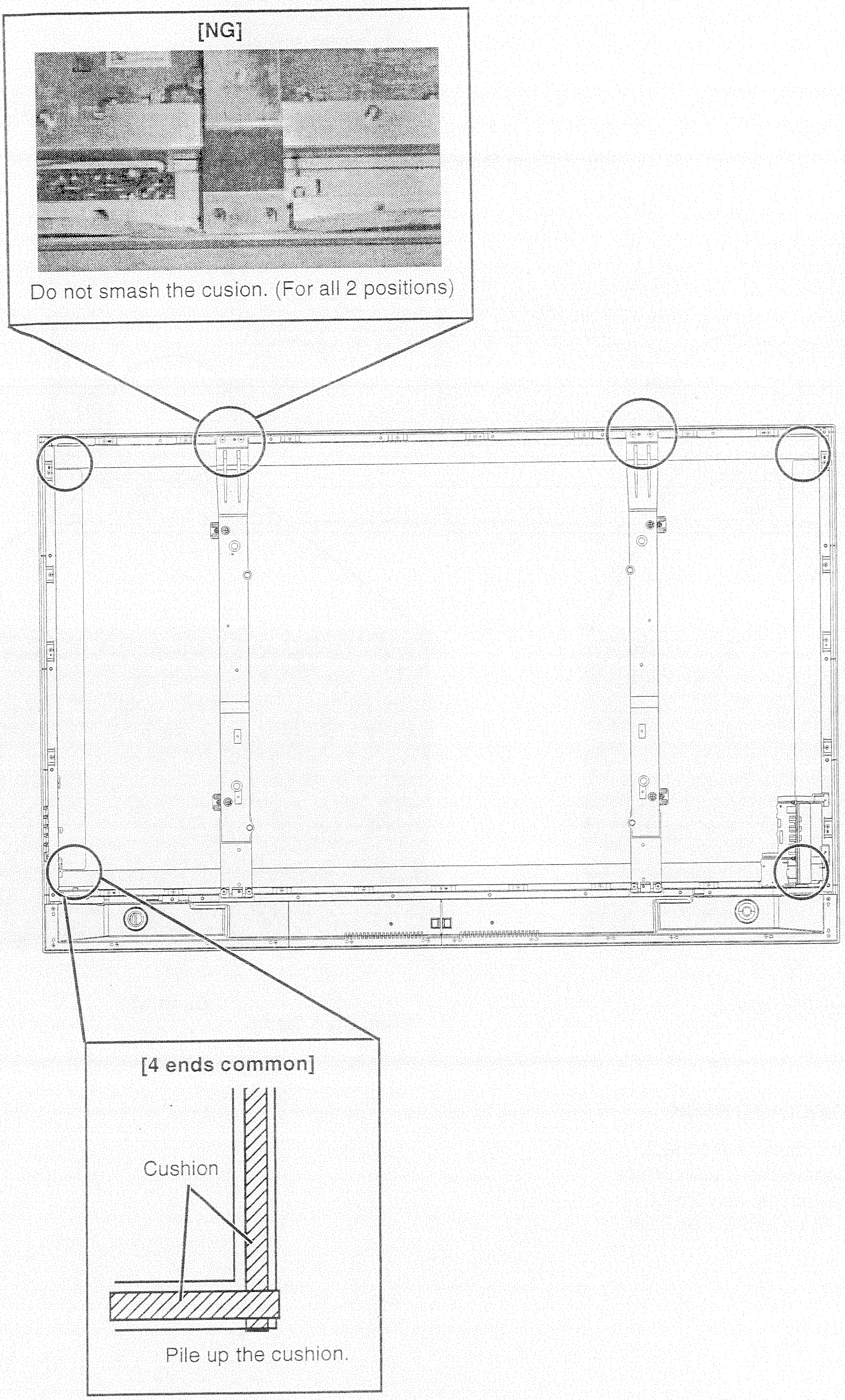
1. Remove the fixing screw of PCB.
2. Assemble the Wiring Clip. (Use the clips on defective PDP Module)
3. Assemble the Cord Clip. (Use the clips on defective PDP Module)


Cord Clip
90˚
Wiring Clip
90˚
Set CN201 (24V)

DISASSEMBLY INSTRUCTIONS

1-8: PDP MODULE

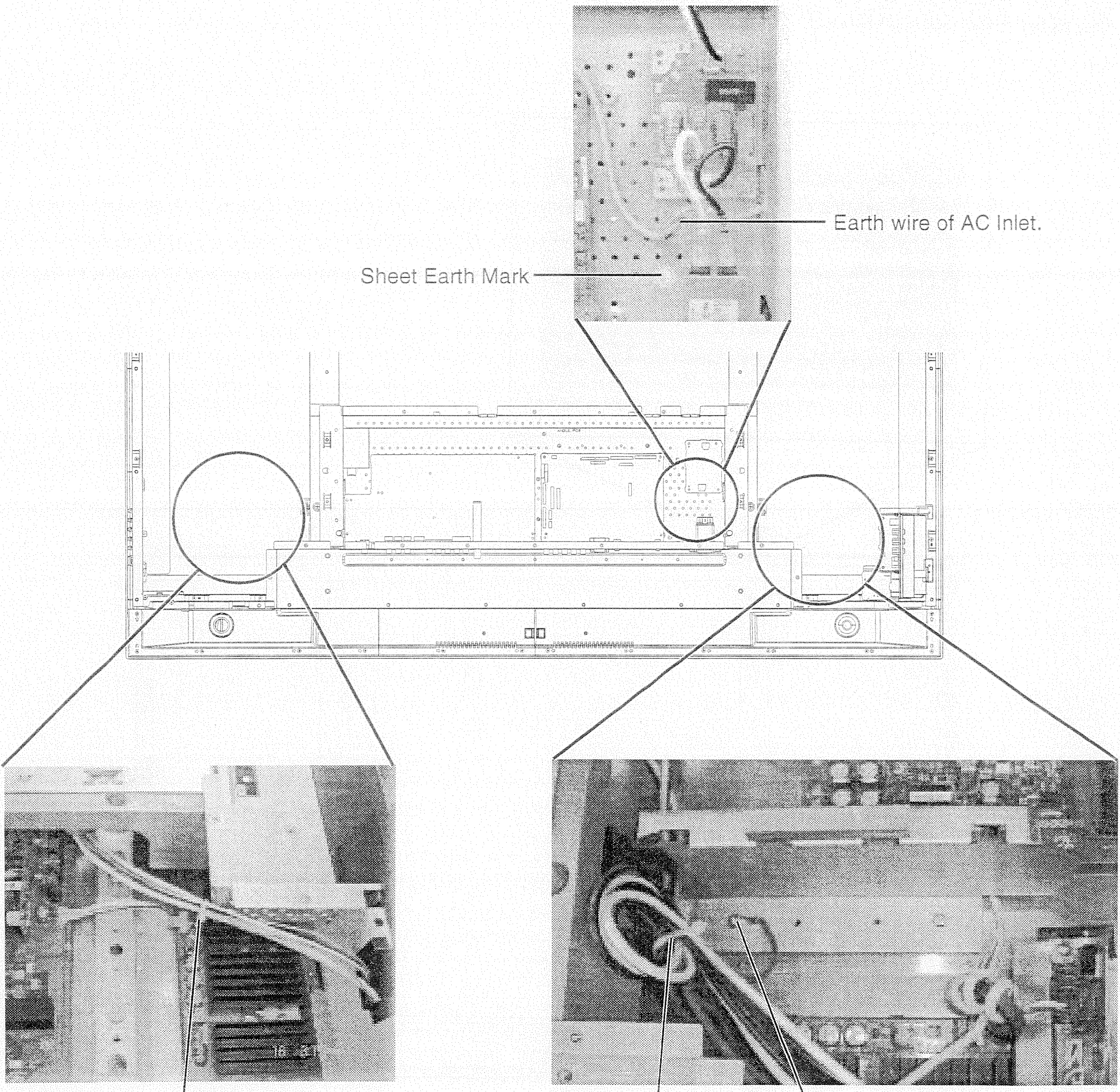
1. Assemble the Frame Main. (Use the clips on defective PDP Module)
2. Install the PDP Filter on the set.
3. Install the Shield Main on the set.
4. Hold the Frame Main carefully and install the New PDP Module on the set.
5. Install the Side Jack on the set.


[NG]
Do not smash the cusion. (For all 2 positions)
[4 ends common]
Cushion
Pile up the cushion.

DISASSEMBLY INSTRUCTIONS

1-9: CHASSIS BLOCK

1. Do the wire fixing as shown in the photo, then install the Chassis Ass'y.
2. Install the Stand Ass'y.


Earth wire of AC Inlet.
Sheet Earth Mark
Band Cord Clamp
Band Cord Clamp
Earth wire

1-10: CABINET BACK/COVER BACK

1. Check if the wire handlings are correct.
2. Check if the cushion positions are correct.
3. Check if the tape positions are correct.
4. Install the Cabinet Back and Cover Back.

DISASSEMBLY INSTRUCTIONS

2. REMOVAL AND INSTALLATION OF FLAT PACKAGE IC

REMOVAL

1. Put Masking Tape (cotton tape) around the Flat Package IC to protect other parts from any damage. **(Refer to Fig. 2-1.)**

   NOTE

   Masking is carried out on all the parts located within 10 mm distance from IC leads.

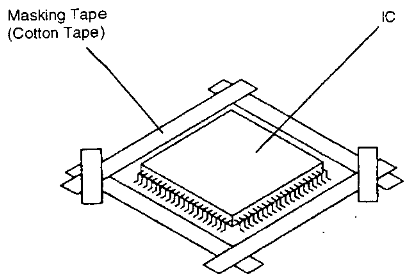

Masking Tape
(Cotton Tape)
IC

Fig. 2-1

2. Heat the IC leads using a blower type IC desoldering machine. **(Refer to Fig. 2-2.)**

   NOTE

   Do not rotate or move the IC back and forth , until IC can move back and forth easily after desoldering the leads completely.

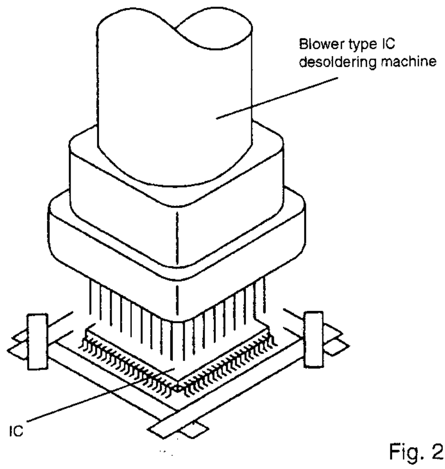

Blower type IC
desoldering machine
IC

Fig. 2-2

3. When IC starts moving back and forth easily after desoldering completely, pickup the corner of the IC using tweezers and remove the IC by moving with the IC desoldering machine. **(Refer to Fig. 2-3.)**

   NOTE

   Some ICs on the PCB are affixed with glue, so be careful not to break or damage the foil of each IC leads or solder lands under the IC when removing it.

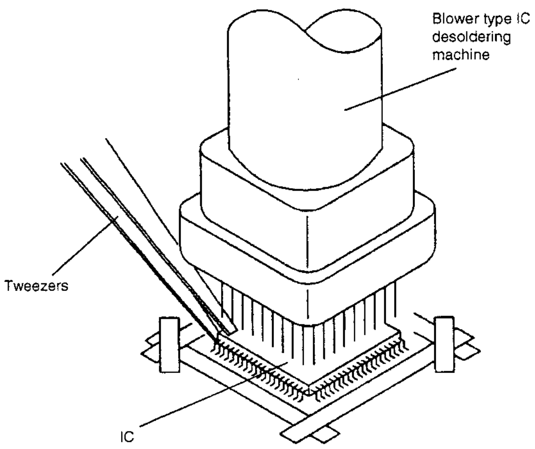

Blower type IC
desoldering
machine
Tweezers
IC

Fig. 2-3

4. Peel off the Masking Tape.

5. Absorb the solder left on the pattern using the Braided Shield Wire. **(Refer to Fig. 2-4.)**

   NOTE

   Do not move the Braided Shield Wire in the vertical direction towards the IC pattern.

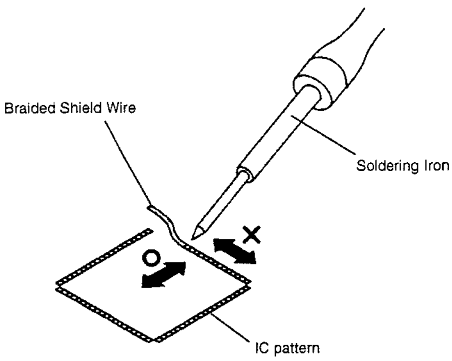

Braided Shield Wire
Soldering Iron
O
X
IC pattern

Fig. 2-4

DISASSEMBLY INSTRUCTIONS

INSTALLATION

1. Take care of the polarity of new IC and then install the new IC fitting on the printed circuit pattern. Then solder each lead on the diagonal positions of IC temporarily. **(Refer to Fig. 2-5.)**

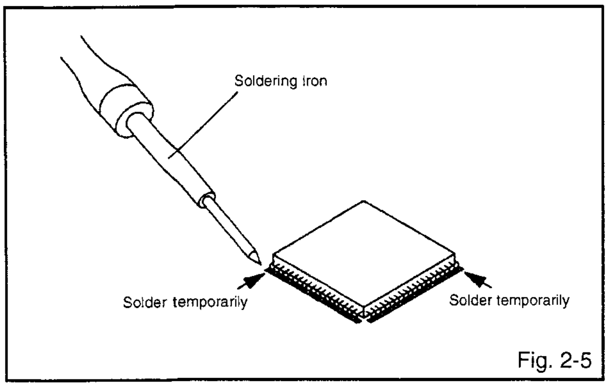

Soldering Iron
Solder temporarily
Solder temporarily

Fig. 2-5

2. Supply the solder from the upper position of IC leads sliding to the lower position of the IC leads. **(Refer to Fig. 2-6.)**

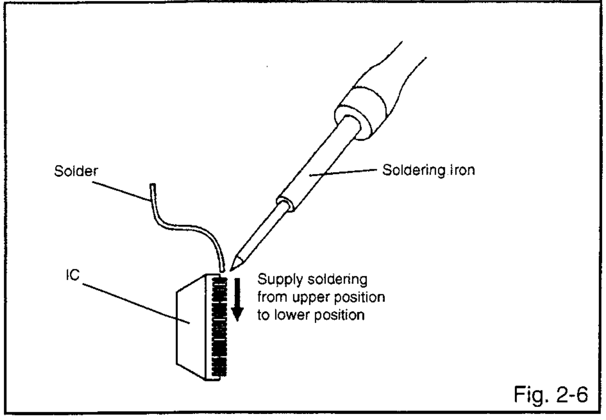

Solder
Soldering Iron
IC
Supply soldering from upper position to lower position

Fig. 2-6

3. Absorb the solder left on the lead using the Braided Shield Wire. **(Refer to Fig. 2-7.)**

NOTE

Do not absorb the solder to excess.

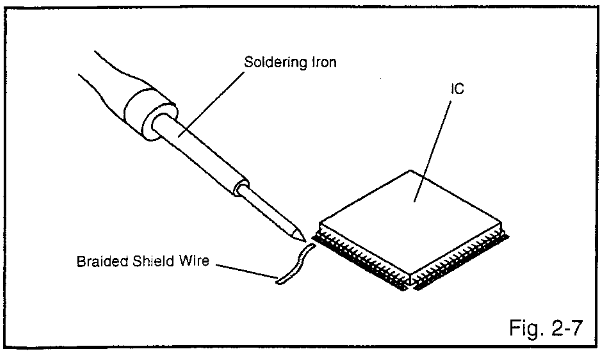

Soldering Iron
IC
Braided Shield Wire

Fig. 2-7

4. When bridge-soldering between terminals and/or the soldering amount are not enough, resolder using a Thin-tip Soldering Iron. **(Refer to Fig. 2-8.)**

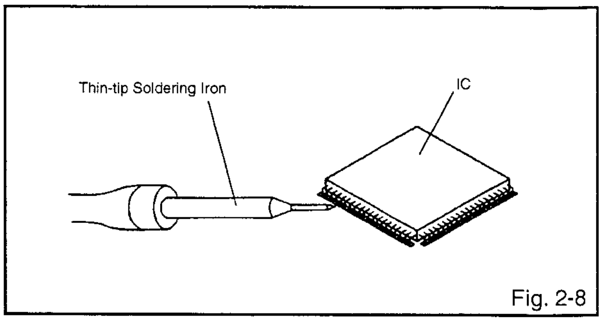

Thin-tip Soldering Iron
IC

Fig. 2-8

5. Finally, confirm the soldering status on four sides of the IC using a magnifying glass.
   Confirm that no abnormality is found on the soldering position and installation position of the parts around the IC. If some abnormality is found, correct by resoldering.

   NOTE

   When the IC leads are bent during soldering and/or repairing, do not repair the bending of leads. If the bending of leads are repaired, the pattern may be damaged. So, always be sure to replace the IC in this case.

SERVICE MODE LIST

This unit is provided with the following SERVICE MODES so you can repair, examine and adjust easily.

To enter to the SERVICE MODE function, press and hold both buttons simultaneously on the main unit and on the remote control for more than the standard time in the appropriate condition. (See below chart.)

Set Condition	Set Key	Remocon Key	Standard Time	Operations
TV mode	VOL. DOWN (Minimum)	0	2 sec.	Reset the user setting items (PICTURE, AUDIO, VOLUME, LANGUAGE and NICAM AUDO/OFF) to the initial state for delivery.
TV mode	VOL. DOWN (Minimum)	1	2 sec.	Initialization of factory TV data. NOTE: If you set factory initialization, the memories are reset such as the channel setting, and the POWER ON total hours.
TV mode	VOL. DOWN (Minimum)	2	2 sec.	Check of the SUM DATA and MICON VERSION on the screen. Refer to the "WHEN REPLACING EEPROM (MEMORY) IC".
TV mode	VOL. DOWN (Minimum)	6	2 sec.	POWER ON total hours are displayed on the screen. Can be checked of the INITIAL DATA of MEMORY IC. Refer to the "WHEN REPLACING EEPROM (MEMORY) IC".
ALL mode	VOL. DOWN (Minimum)	9	2 sec.	Display of the Adjustment MENU on the screen. Refer to the "ELECTRICAL ADJUSTMENT" (On-Screen Display Adjustment).

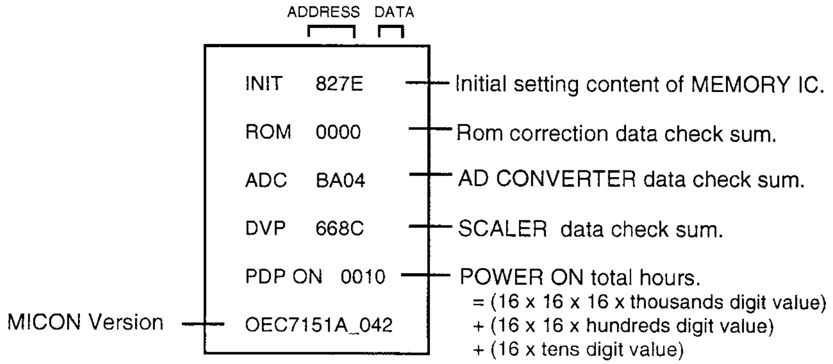
WHEN REPLACING EEPROM (MEMORY) IC

CONFIRMATION OF CHECK SUM, POWER ON TOTAL HOURS AND MICON VERSION

Initial total of MEMORY IC, POWER ON total hours and MICON VERSION can be checked on the screen. Total hours are displayed in 16 system of notation.

NOTE: If you set a factory initialization, the total hours is reset to "0".
Please refer to "CONFIRMATION OF INITIAL DATA" when SUM DATA is not corresponding.

1. Turn on the POWER, and set to the TV mode.
2. Set the VOLUME to minimum.
3. Press both VOL. DOWN button on the set and Channel button **(2)** on the remote control for more than 2 seconds.
4. After the confirmation of POWER ON total hours and MICON VERSION, turn off the power.



```
INIT    827E
ROM     0000
ADC     BA04
DVP     668C
PDP ON  0010
OEC7151A_042
```

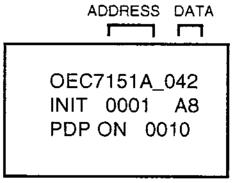
Initial setting content of MEMORY IC.
Rom correction data check sum.
AD CONVERTER data check sum.
SCALER data check sum.
POWER ON total hours.
= (16 x 16 x 16 x thousands digit value)
+ (16 x 16 x hundreds digit value)
+ (16 x tens digit value)
+ (ones digit value)

FIG. 1

CONFIRMATION OF INITIAL DATA

If a service repair is undertaken where it has been required to change the MEMORY IC, the following steps should be taken to ensure correct data settings while making reference to INITIAL SETTING TABLE (Attached "INITIAL DATA").

1. Turn on the POWER, and set to the TV mode.
2. Set the VOLUME to minimum.
3. Press both VOL. DOWN button on the set and Channel button **(6)** on the remote control for more than 2 seconds. ADDRESS and DATA should appear as FIG 2.



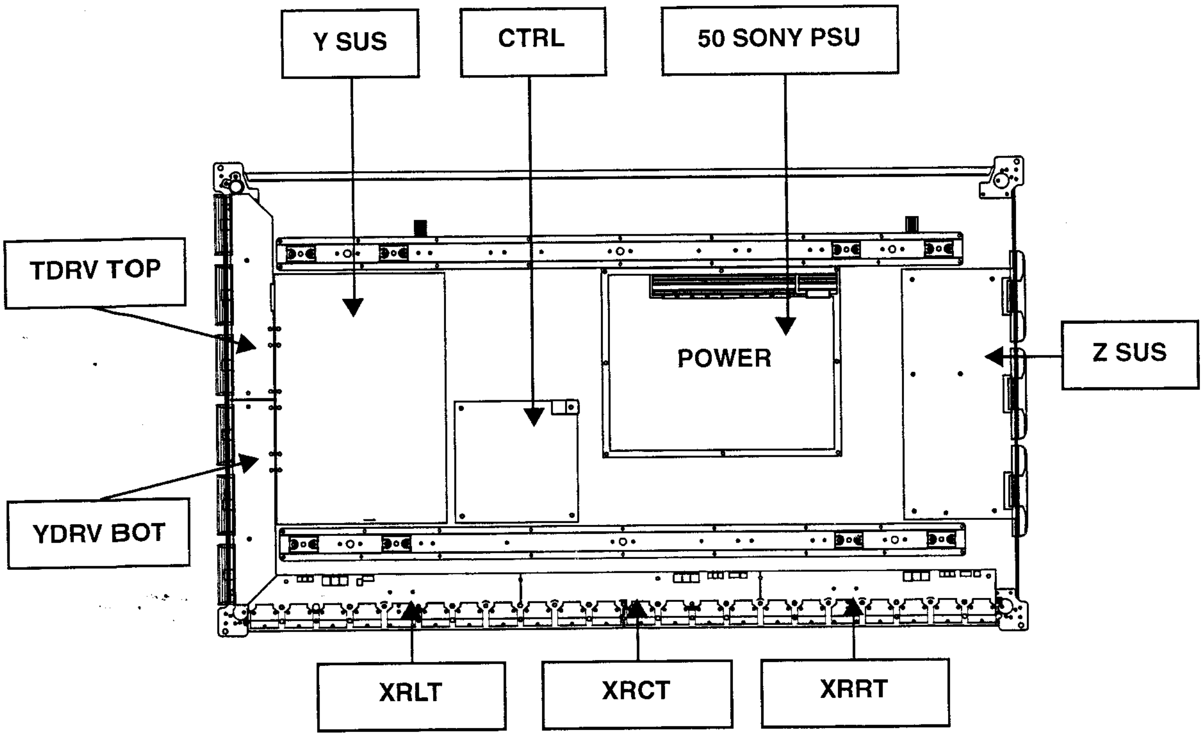
```
OEC7151A_042
INIT  0001  A8
PDP ON  0010
```

FIG. 2

4. ADDRESS is now selected and should "blink". Using the RIGHT/LEFT button on the remote, step through the ADDRESS until required ADDRESS to be changed is reached.
5. Press ENTER to select DATA. When DATA is selected, it will "blink".
6. Again, step through the DATA using RIGHT/LEFT button until required DATA value has been selected.
7. Pressing ENTER will take you back to ADDRESS for further selection if necessary.
8. Repeat steps 4 to 7 until all data has been checked.
9. When satisfied correct DATA has been entered, turn POWER off (return to STANDBY MODE) to finish DATA input. **After the data input, set to the initializing of shipping.**
10. Turn on the POWER, and set to the TV mode.
11. Press both VOL. DOWN button on the set and Channel button **(1)** on the remote control for more than 2 seconds.
12. After the finishing of the initializing of shipping, the unit will turn off automatically.

The unit will now have the correct DATA for the new MEMORY IC.

FUNCTION OF PCB



50 SONY PSU	: A supplier which supplies voltage and current to each PCB and Panel.
Y SUS	: According to the timing provided from Panel Control, switches FETs and generates driving waveform signal which is provided to Y electrode through Scan Driver IC of TDRV TOP and TDRV BOT.
Z SUS	: According to the timing provided from Panel Control, switches FETs and generates driving waveform signal which is provided to Z electrode through Connector.
CTRL	: Controls Y electrode, Z electrode, and ADDRESS electrode.
XRLT	: Generates Address electrode and supplies to Address electrode by Driver IC.
XRCT	: Generates Address electrode and supplies to Address electrode by Driver IC.
XRRT	: Generates Address electrode and supplies to Address electrode by Driver IC.
TDRV TOP	: Generates Scan electrode and supplies to Y electrode by Driver IC.
TDRV BOT	: Generates Scan electrode and supplies to Y electrode by Driver IC.

ELECTRICAL ADJUSTMENTS

1. ADJUSTMENT PROCEDURE

Read and perform these adjustments when repairing the circuits or replacing electrical parts or PCB assemblies.

CAUTION

- Use an isolation transformer when performing any service on this chassis.
- When removing a PCB or related component, after unfastening or changing a wire, be sure to put the wire back in its original position.
- When you exchange IC and Transistor with a heat sink, apply silicon grease **(YG6260M)** on the contact section of the heat sink. Before applying new silicon grease, remove all the old silicon grease. (Old grease may cause damage to the IC and Transistor).

Prepare the following measurement tools for electrical adjustments.

1. Pattern Generator

2. BASIC ADJUSTMENTS

On-Screen Display Adjustment

1. Set the VOLUME to minimum.
2. Press the VOL. DOWN button on the set and the channel button **(9)** on the remote control for more than 2 seconds to display adjustment mode on the screen as shown in **Fig. 2-1**.

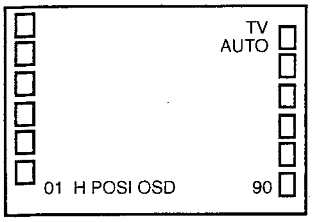


Fig. 2-1

3. Use the Channel UP/DOWN button or Channel button **(0-9)** on the remote control to select the options shown in **Fig. 2-2**.
4. Press the MENU button on the remote control to end the adjustments.
5. To display the adjustment screen for AV, HD-MI, COMPONENT and PC mode, press the INPUT SELECT button on the remote control to set to the AV, HD-MI, COMPONENT and PC mode.
   Press the VOL.DOWN button on the set and the channel **(9)** on the remote control for more than 2 seconds.

NO.	FUNCTION	NO.	FUNCTION
01	H POSI OSD	19	B DRIVE (W)
02	V POSI OSD	20	B CUT OFF (W)
03	R DRIVE (N)	21	H POSI 50Hz
04	R CUT OFF (N)	22	H POSI 60Hz
05	G DRIVE (N)	23	V POSI 50Hz
06	G CUT OFF (N)	24	V POSI 60Hz
07	B DRIVE (N)	28	BRIGHT CENT
08	B CUT OFF (N)	29	BRIGHT MAX
09	R DRIVE (C)	30	BRIGHT MIN
10	R CUT OFF (C)	31	TINT
11	G DRIVE (C)	35	CONTRAST CENTER
12	G CUT OFF (C)	36	CONTRAST MAX
13	B DRIVE (C)	37	CONTRAST MIN
14	B CUT OFF (C)	38	COLOR CENT
15	R DRIVE (W)	39	COLOR MAX
16	R CUT OFF (W)	40	COLOR MIN
17	G DRIVE (W)	41	H POSI TEXT
18	G CUT OFF (W)	42	V POSI TEXT

Fig. 2-2

2-1: CONTRAST CENT

1. Receive the monoscope pattern.(RF Input)
2. Activate the adjustment mode display of **Fig. 2-1** and press the channel button **(35)** on the remote control to select "CONTRAST CENTER".
3. Check if the step No. CONT CENT is "150".
4. Receive a broadcast and check if the picture is normal.
5. Press the INPUT SELECT button on the remote control to set to the AV mode. Then perform the above adjustments 1~2.
6. Check if the step No. CONT CENT is "140".
7. Receive a broadcast and check if the picture is normal.
8. Receive a RGB signal.
   (Ex. By the DVD PLAYER, it's the RGB mode setting.)
9. Activate the adjustment mode display of **Fig. 2-1** and press the channel button **(35)** on the remote control to select "CONTRAST CENT".
10. Check if the step No. CONT CENT is "140".
11. Receive a broadcast and check if the picture is normal.
12. Playback the DVD disc. (480i input)
13. Press the INPUT SELECT button on the remote control to set to the HDMI mode.
14. Activate the adjustment mode display of **Fig. 2-1** and press the channel button **(35)** on the remote control to select "CONTRAST CENTER".
15. Check if the step No. CONT CENT is "155".
16. Receive a broadcast and check if the picture is normal.

ELECTRICAL ADJUSTMENTS

2-2: WHITE BALANCE

1. Place the set in Aging Test for more than 15 minutes.
2. Receive the gray scale pattern from the Pattern Generator.
3. Press the INPUT SELECT button on the remote control to set to the AV mode.
4. Using the remote control, set the brightness and contrast to normal position.
5. Activate the adjustment mode display of **Fig. 2-1** and press the channel button **(03)** on the remote control to select “R DRIVE (N)”.
6. Press the CH. UP/DOWN button on the remote control to select the “R CUTOFF (N)”, “B.DRIVE(N)”, “B CUTOFF (N)”, “R DRIVE (C)”, “R CUTOFF (C)”, “B.DRIVE(C)”, “B CUTOFF (C)”, “R DRIVE (W)”, “R CUTOFF (W)”, “B.DRIVE(W)”and “B CUTOFF (W)”.
7. Adjust the VOL. UP/DOWN button on the remote control to whiten the R CUTOFF (N), B.DRIVE(N), B CUTOFF (N), R DRIVE (C), R CUTOFF (C), B.DRIVE(C), B CUTOFF (C), R DRIVE (W), R CUTOFF (W), B.DRIVE(W) and B CUTOFF (W) at each step tone sections equally.
8. Perform the above adjustments 6 and 7 until the white color is looked like a white.

2-3: H OSD POSITION

1. Receive the monoscope pattern from the Pattern Generator.
2. Using the remote control, set the brightness and contrast to normal position.
3. Activate the adjustment mode display of **Fig. 2-1** and press the channel button **(01)** on the remote control to select "H POSI OSD".
4. Press the LEFT/RIGHT button on the remote control until the difference of A and B becomes minimum. **(Refer to Fig. 2-3)**

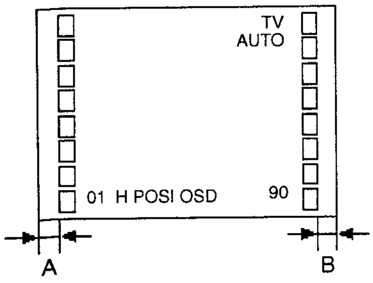


Fig. 2-3

2-4: BRIGHT CENT

1. Receive the monoscope pattern. (RF Input)
2. Set the screen mode to FULL.
3. Using the remote control, set the brightness and contrast to normal position.
4. Activate the adjustment mode display of **Fig. 2-1** and press the channel button **(28)** on the remote control to select "BRIGHT CENT".
5. Press the VOL. UP/DOWN button on the remote control until the white 2.7% is starting to be visible.
6. Receive the monoscope pattern.
7. Press the INPUT SELECT button on the remote control to set to the AV mode. Then perform the above adjustments 2~5.
8. Receive the monoscope pattern. (RGB signal Input)
9. Activate the adjustment mode display of **Fig. 2-1** and press the channel button **(28)** on the remote control to select "BRIGHT CENT".
10. Press the VOL. UP/DOWN button on the remote control until the white 2.7% is starting to be visible.
11. Playback the DVD disc. (480i input)
12. Press the INPUT SELECT button on the remote control to set to the HDMI mode.
13. Activate the adjustment mode display of **Fig. 2-1** and press the channel button **(28)** on the remote control to select "BRIGHT CENT".
14. Press the VOL. UP/DOWN button on the remote control until the white 2.7% is starting to be visible.

ELECTRICAL ADJUSTMENTS

2-5: Confirmation of Fixed Value (Step No.)

Please check if the fixed values of each the adjustment items are set correctly referring below.

(TV/AV/RGB/CS/PC/HD-MI)

		TV		AV			21PIN RGB	
		PAL	SECAM	PAL	SECAM	NTSC	PAL	NTSC
NO.	FUNCTION	Step No.						
1	H POSI OSD	23	23	23	23	23	23	23
2	V POST OSD	106	106	106	106	106	106	106
3	R DRIVE N	119	119	119	119	119	119	119
4	R CUT OFF N	130	130	130	130	130	130	130
5	G DRIVE N	128	128	128	128	128	128	128
6	G CUT OFF N	128	128	128	128	128	128	128
7	B DRIVE N	122	122	122	122	122	122	122
8	B CUT OFF N	131	131	131	131	131	131	131
9	R DRIVE C	115	115	115	115	115	115	115
10	R CUT OFF C	131	131	131	131	131	131	131
11	G DRIVE C	128	128	128	128	128	128	128
12	G CUT OFF C	128	128	128	128	128	128	128
13	B DRIVE C	128	128	128	128	128	128	128
14	B CUT OFF C	130	130	130	130	130	130	130
15	R DRIVE W	125	125	125	125	125	125	125
16	R CUT OFF W	131	131	131	131	131	131	131
17	G DRIVE	128	128	128	128	128	128	128
18	G CUT OFF W	128	128	128	128	128	128	128
19	B DRIVE W	121	121	121	121	121	121	121
20	B CUT OFF W	132	132	132	132	132	132	132
21	H POSI 50Hz	316	316	316	316	316	310	310
22	H POSI 60Hz	282	282	282	282	282	286	286
23	V POSI 50Hz	24	24	24	24	24	24	24
24	V POSI 60Hz	26	26	26	26	26	26	26
28	BRIGHT CENT	126	126	131	131	131	128	128
29	BRIGHT MAX	170	170	170	170	170	170	170
30	BRIGHT MIN	90	90	90	90	90	90	90
31	TINT	113	113	128	128	123	135	122
35	CONTRAST CENTER	150	150	140	140	140	140	140
36	CONTRAST MAX	180	180	170	170	170	170	170
37	CONTRAST MIN	40	40	40	40	40	40	40
38	COLOR CENT	79	79	77	77	77	165	165
39	COLOR MAX	120	120	120	120	120	220	220
40	COLOR MIN	0	0	0	0	0	0	0
41	H POSI TEXT	180	180	180	180	180	180	180
42	V POSI TEXT	86	86	86	86	86	86	86

ELECTRICAL ADJUSTMENTS

2-5: Confirmation of Fixed Value (Step No.)

Please check if the fixed values of each the adjustment items are set correctly referring below.

(TV/AV/RGB/CS/PC/HD-MI)

		COMPONENT							
		60Hz				**50Hz**			
		480i	**480p**	**720p**	**1080i**	**576i**	**576p**	**720p**	**1080I**
NO.	**FUNCTION**	**Step No.**							
1	H POSI OSD	23	23	23	23	23	23	23	23
2	V POST OSD	106	106	106	106	106	106	106	106
3	R DRIVE N	119	119	119	..	119	119	119	..
4	R CUT OFF N	130	130	130	130	130	130	130	130
5	G DRIVE N	128	128	128	128	128	128	128	128
6	G CUT OFF N	128	128	128	128	128	128	128	128
7	B DRIVE N	122	122	122	122	122	122	122	..
8	B CUT OFF N	131	131	131	131	131	131	131	131
9	R DRIVE C	115	115	115	115	115	115	115	..
10	R CUT OFF C	131	131	131	131	131	131	131	131
11	G DRIVE C	128	128	128	128	128	128	128	128
12	G CUT OFF C	128	128	128	128	128	128	128	128
13	B DRIVE C	128	128	128	128	128	128	128	..
14	B CUT OFF C	130	130	130	130	130	130	130	130
15	R DRIVE W	125	125	125	125	125	125	125	..
16	R CUT OFF W	131	131	131	131	131	131	131	131
17	G DRIVE	128	128	128	128	128	128	128	128
18	G CUT OFF W	128	128	128	128	128	128	128	128
19	B DRIVE W	121	121	121	121	121	121	121	..
20	B CUT OFF W	132	132	132	132	132	132	132	132
21	H POSI 50Hz	..	..	..	..	258	159	328	134
22	H POSI 60Hz	283	142	328	134	..	..	..	..
23	V POSI 50Hz	..	..	..	..	24	26	26	27
24	V POSI 60Hz	26	27	26	26	..	..	..	..
28	BRIGHT CENT	132	122	122	122	127	116	116	116
29	BRIGHT MAX	170	170	170	170	170	170	170	170
30	BRIGHT MIN	90	90	90	90	90	90	90	90
31	TINT	125	122	122	122	131	131	131	131
35	CONTRAST CENTER	140	155	155	155	140	155	155	155
36	CONTRAST MAX	170	185	185	185	170	185	185	185
37	CONTRAST MIN	40	40	40	40	40	40	40	40
38	COLOR CENT	103	62	62	62	92	54	54	54
39	COLOR MAX	130	100	100	100	130	100	100	100
40	COLOR MIN	0	0	0	0	0	0	0	0
41	H POSI TEXT	180	180	180	180	180	180	180	180
42	V POSI TEXT	86	86	86	86	86	86	86	86

ELECTRICAL ADJUSTMENTS

2-5: Confirmation of Fixed Value (Step No.)

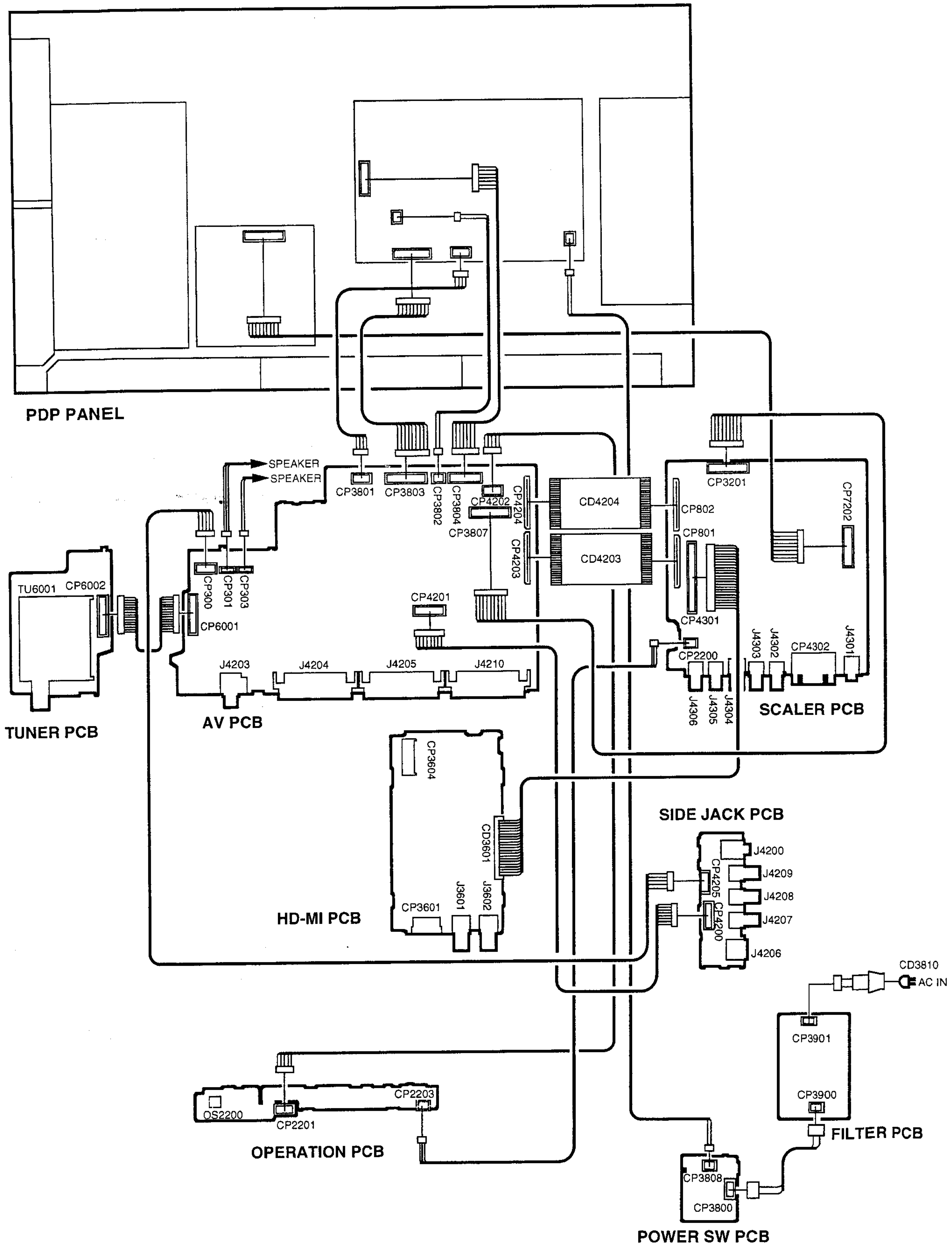
Please check if the fixed values of each the adjustment items are set correctly referring below.

(TV/AV/RGB/CS/PC/HD-MI)

		HD-MI								PC
		60Hz				50Hz				
		480i	480p	720p	1080i	576i	576p	720p	1080i	
NO.	FUNCTION	Step No.								
1	H POSI OSD	23	23	23	23	23	23	23	23	23
2	V POST OSD	106	106	106	106	106	106	106	106	106
3	R DRIVE N	119	119	119	119	119	119	119	119	128
4	R CUT OFF N	130	130	130	130	130	130	130	130	..
5	G DRIVE N	128	128	128	128	128	128	128	128	128
6	G CUT OFF N	128	128	128	128	128	128	128	128	..
7	B DRIVE N	122	122	122	122	122	122	122	122	128
8	B CUT OFF N	131	131	131	131	131	131	131	131	..
9	R DRIVE C	115	115	115	115	115	115	115	115	..
10	R CUT OFF C	131	131	131	131	131	131	131	131	..
11	G DRIVE C	128	128	128	128	128	128	128	128	..
12	G CUT OFF C	128	128	128	128	128	128	128	128	..
13	B DRIVE C	128	128	128	128	128	128	128	128	..
14	B CUT OFF C	130	130	130	130	130	130	130	130	..
15	R DRIVE W	125	125	125	125	125	125	125	125	..
16	R CUT OFF W	131	131	131	131	131	131	131	131	..
17	G DRIVE	128	128	128	128	128	128	128	128	..
18	G CUT OFF W	128	128	128	128	128	128	128	128	..
19	B DRIVE W	121	121	121	121	121	121	121	121	..
20	B CUT OFF W	132	132	132	132	132	132	132	132	..
21	H POSI 50Hz	..	..	..	..	321	158	288	88	..
22	H POSI 60Hz	281	142	288	88	..	..	..	..	43
23	V POSI 50Hz	..	..	..	..	24	26	26	27	..
24	V POSI 60Hz	26	26	27	26	..	..	..	..	26
28	BRIGHT CENT	121	122	116	124	114	114	113	118	125
29	BRIGHT MAX	170	170	170	170	170	170	170	170	150
30	BRIGHT MIN	90	90	90	90	90	90	90	90	70
31	TINT	127	127	135	135	131	131	133	133	..
35	CONTRAST CENTER	155	155	155	155	155	160	155	155	105
36	CONTRAST MAX	185	185	185	185	185	185	185	185	180
37	CONTRAST MIN	40	40	40	40	40	40	40	40	60
38	COLOR CENT	60	60	60	60	54	54	55	54	..
39	COLOR MAX	100	100	100	100	100	100	100	100	..
40	COLOR MIN	0	0	0	0	0	0	0	0	..
41	H POSI TEXT	180	180	180	180	180	180	180	180	..
42	V POSI TEXT	86	86	86	86	86	86	86	86	..

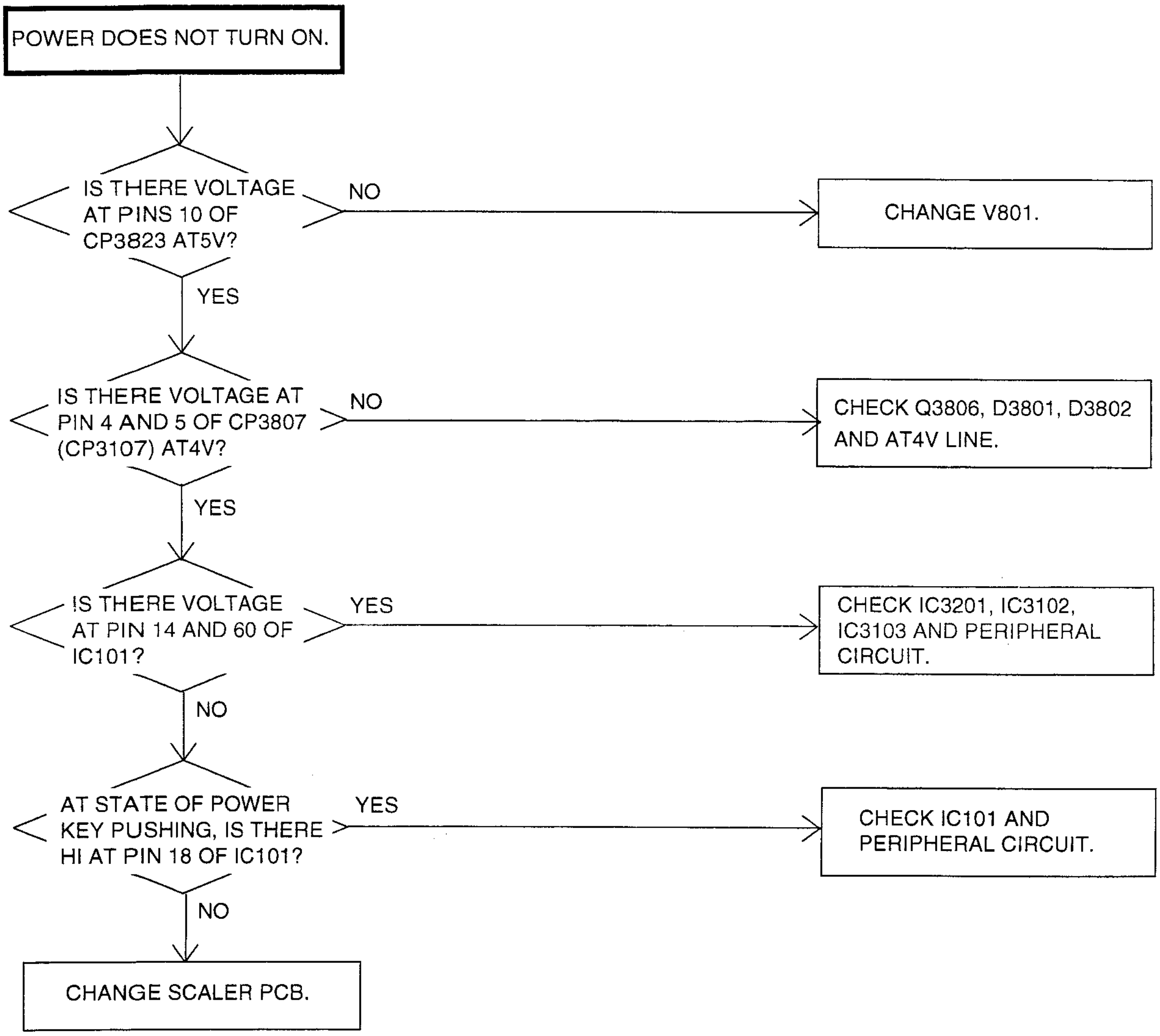
ELECTRICAL ADJUSTMENTS

3. ELECTRICAL ADJUSTMENT PARTS LOCATION GUIDE (WIRING CONNECTION)

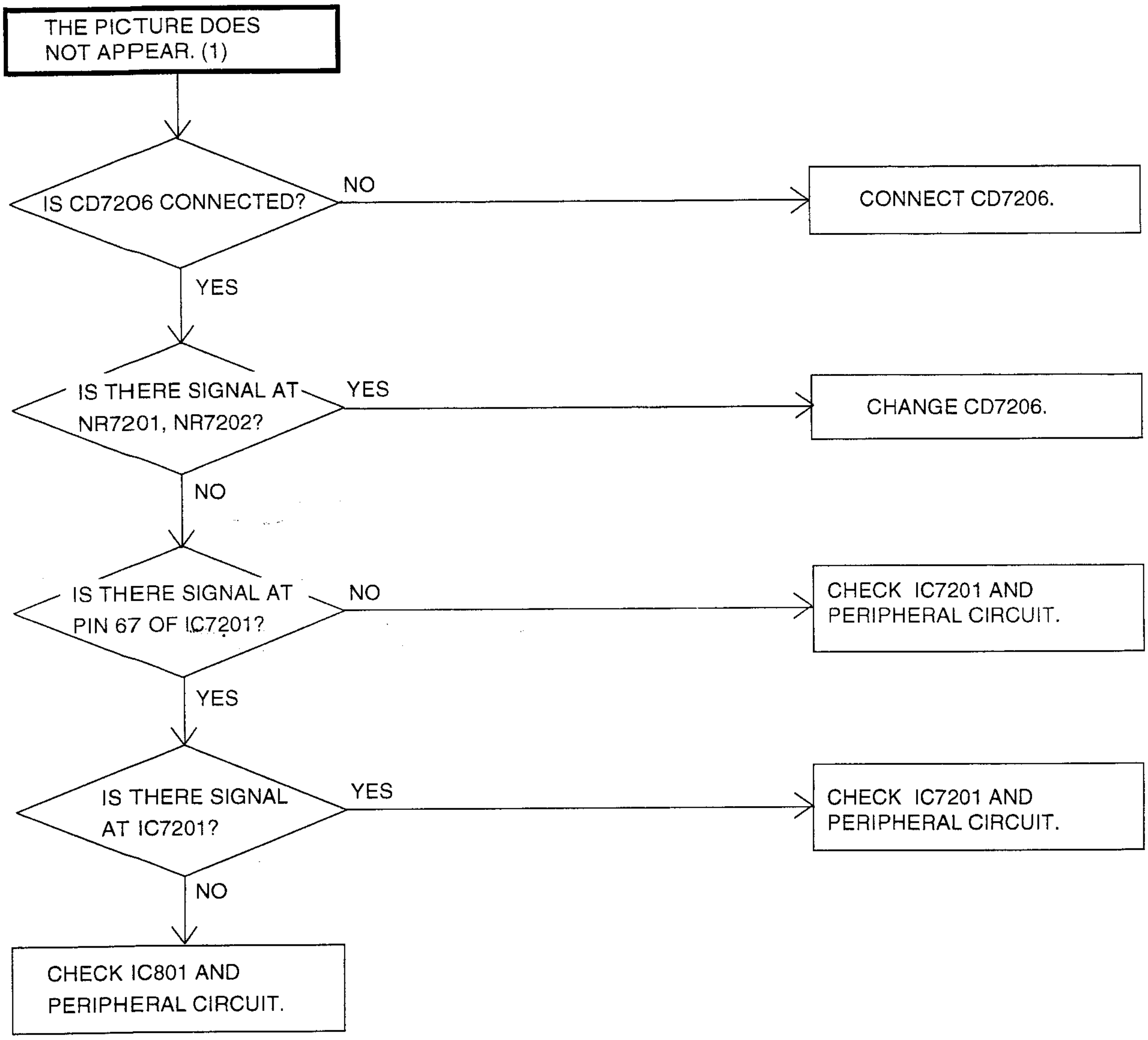


PDP PANEL
SPEAKER
SPEAKER
CP3801
CP3803
CP3802
CP3804
CP4202
CP4204
CP3807
CP4203
CD4204
CD4203
CP802
CP801
CP3201
CP7202
TU6001
CP6002
CP300
CP301
CP303
CP6001
CP4201
CP4301
CP2200
J4303
J4302
CP4302
J4301
J4203
J4204
J4205
J4210
J4306
J4305
J4304
TUNER PCB
AV PCB
SCALER PCB
CP3604
CD3601
J3601
J3602
CP3601
HD-MI PCB
SIDE JACK PCB
J4200
J4209
J4208
J4207
J4206
CP4205
CP4200
CD3810
AC IN
CP3901
CP3900
FILTER PCB
CP2203
OS2200
CP2201
OPERATION PCB
CP3808
CP3800
POWER SW PCB

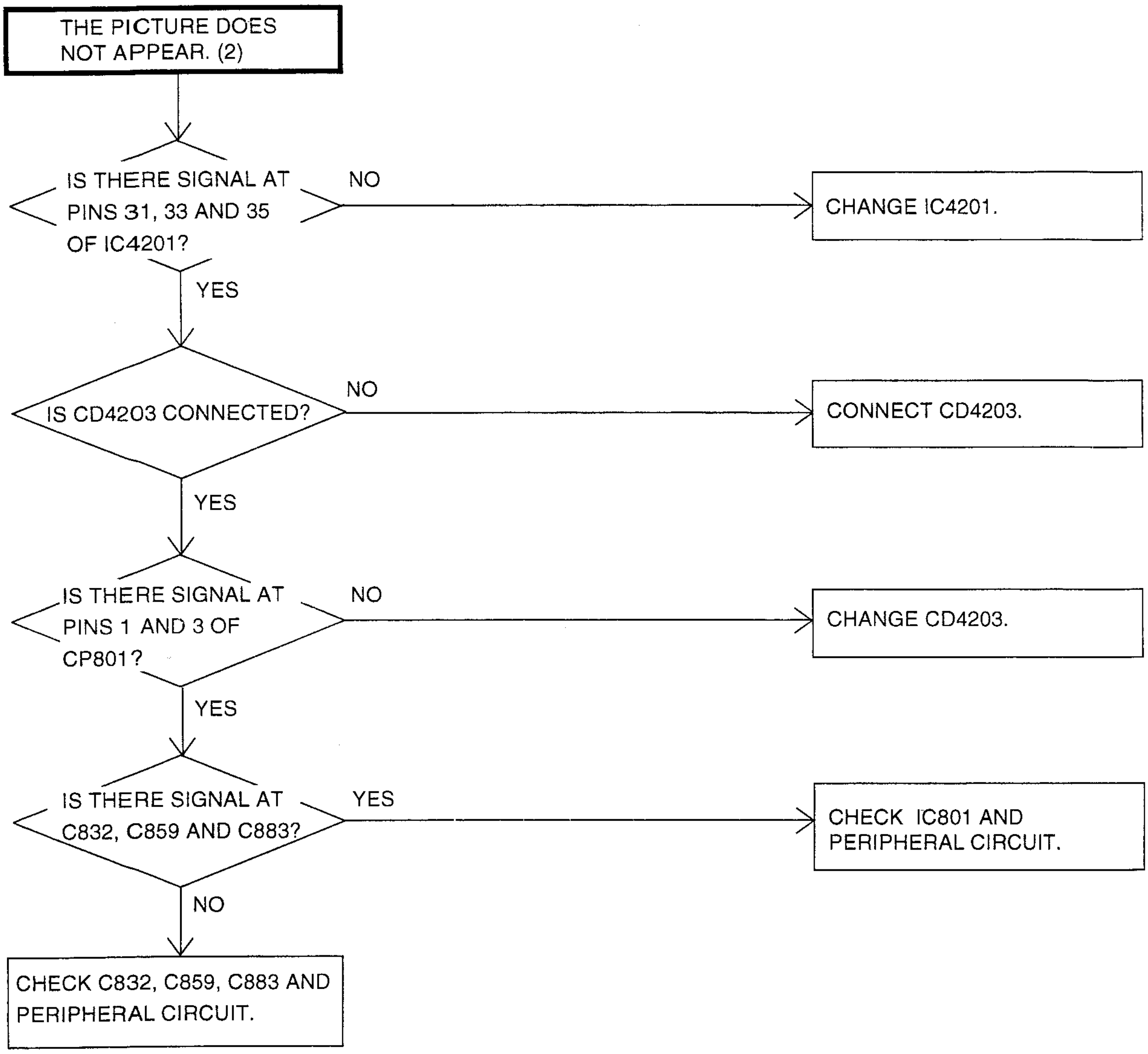
TROUBLESHOOTING GUIDE


POWER DOES NOT TURN ON.
IS THERE VOLTAGE AT PINS 10 OF CP3823 AT5V?
NO
CHANGE V801.
YES
IS THERE VOLTAGE AT PIN 4 AND 5 OF CP3807 (CP3107) AT4V?
NO
CHECK Q3806, D3801, D3802 AND AT4V LINE.
YES
IS THERE VOLTAGE AT PIN 14 AND 60 OF IC101?
YES
CHECK IC3201, IC3102, IC3103 AND PERIPHERAL CIRCUIT.
NO
AT STATE OF POWER KEY PUSHING, IS THERE HI AT PIN 18 OF IC101?
YES
CHECK IC101 AND PERIPHERAL CIRCUIT.
NO
CHANGE SCALER PCB.

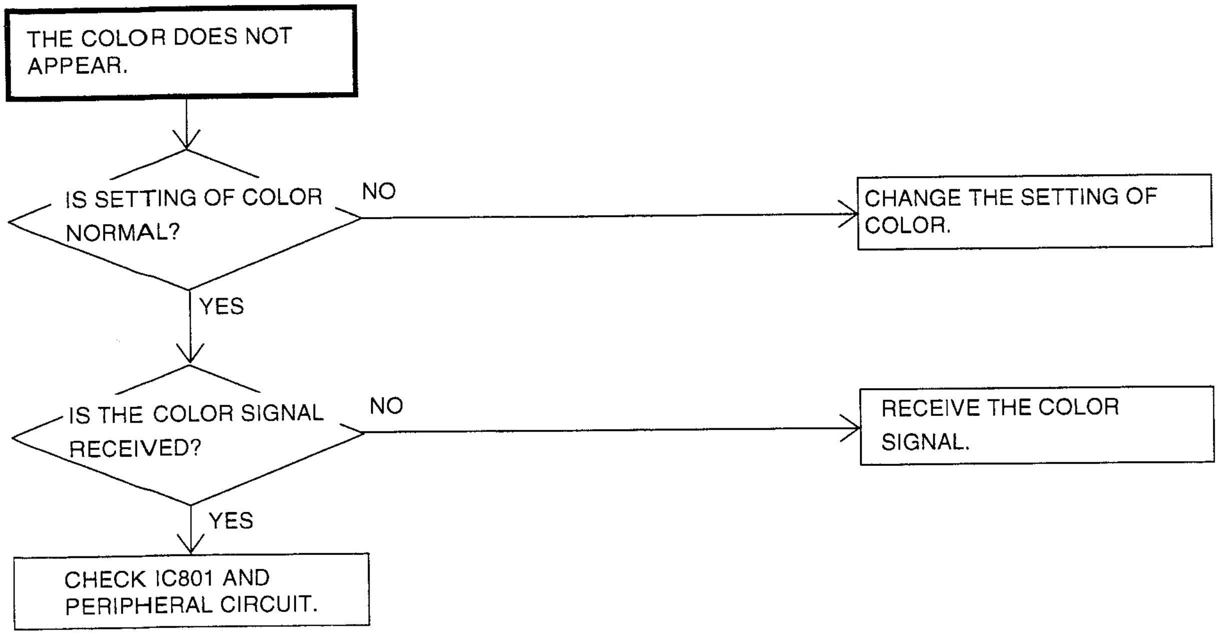
TROUBLESHOOTING GUIDE

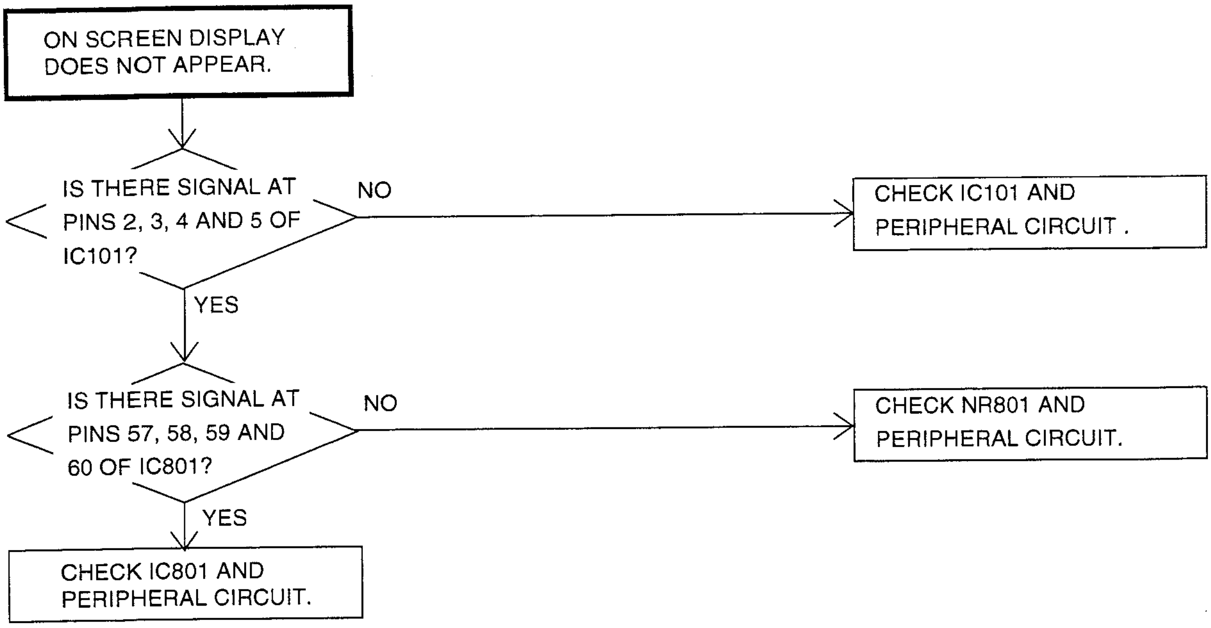

THE PICTURE DOES NOT APPEAR. (1)
IS CD7206 CONNECTED?
NO
CONNECT CD7206.
YES
IS THERE SIGNAL AT NR7201, NR7202?
YES
CHANGE CD7206.
NO
IS THERE SIGNAL AT PIN 67 OF IC7201?
NO
CHECK IC7201 AND PERIPHERAL CIRCUIT.
YES
IS THERE SIGNAL AT IC7201?
YES
CHECK IC7201 AND PERIPHERAL CIRCUIT.
NO
CHECK IC801 AND PERIPHERAL CIRCUIT.

TROUBLESHOOTING GUIDE

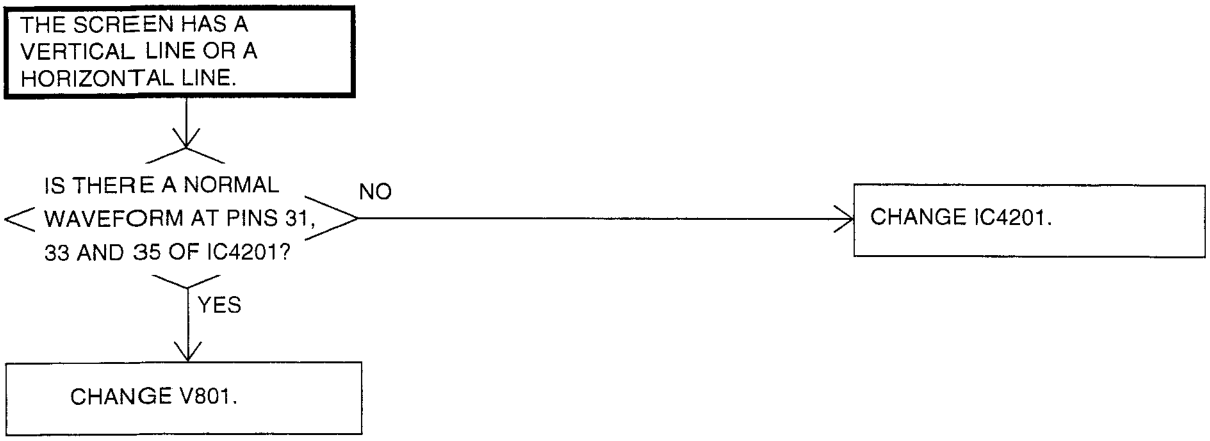

THE PICTURE DOES NOT APPEAR. (2)
IS THERE SIGNAL AT PINS 31, 33 AND 35 OF IC4201?
NO
CHANGE IC4201.
YES
IS CD4203 CONNECTED?
NO
CONNECT CD4203.
YES
IS THERE SIGNAL AT PINS 1 AND 3 OF CP801?
NO
CHANGE CD4203.
YES
IS THERE SIGNAL AT C832, C859 AND C883?
YES
CHECK IC801 AND PERIPHERAL CIRCUIT.
NO
CHECK C832, C859, C883 AND PERIPHERAL CIRCUIT.

TROUBLESHOOTING GUIDE

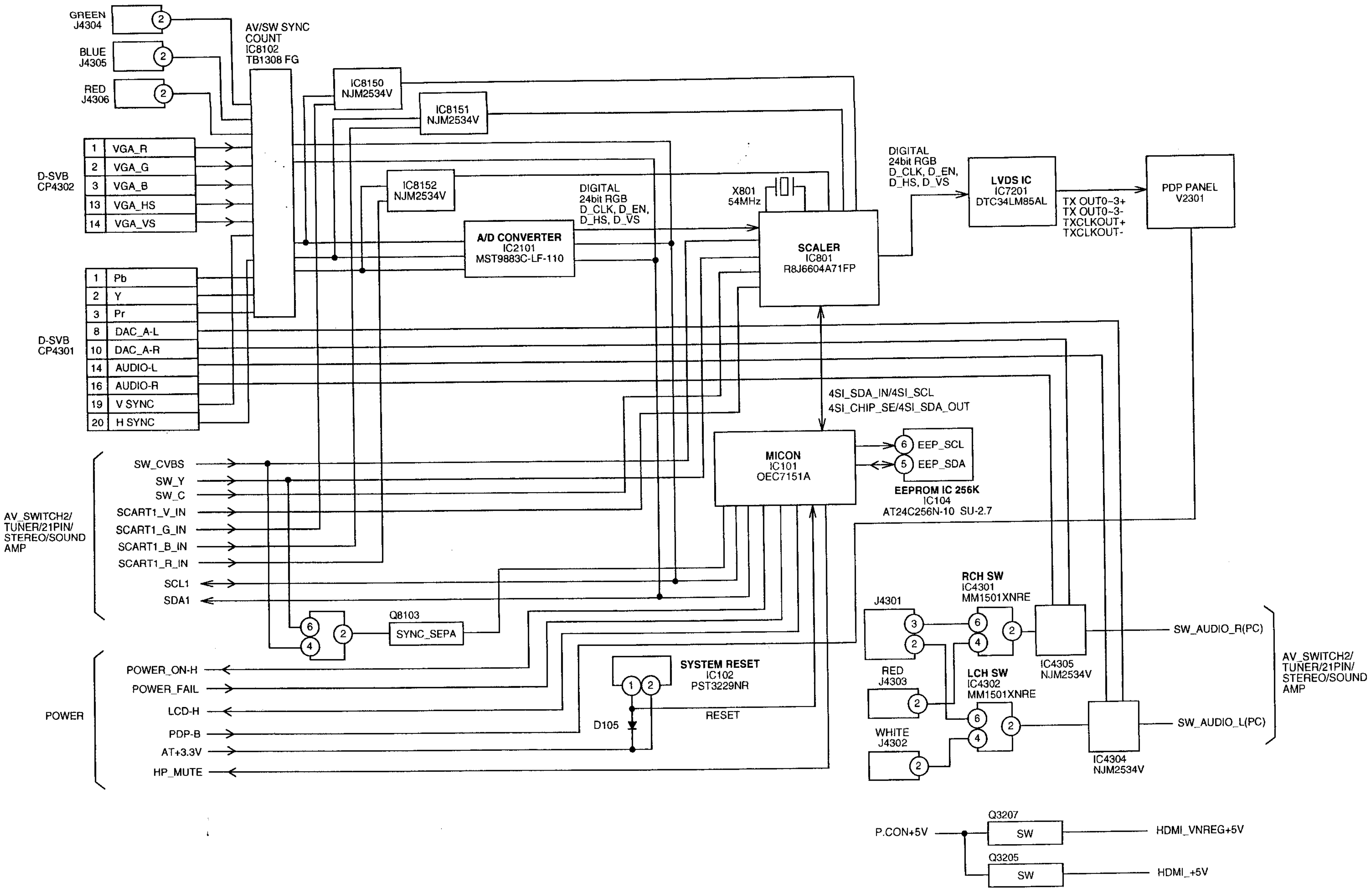

THE COLOR DOES NOT APPEAR.
IS SETTING OF COLOR NORMAL?
NO
CHANGE THE SETTING OF COLOR.
YES
IS THE COLOR SIGNAL RECEIVED?
NO
RECEIVE THE COLOR SIGNAL.
YES
CHECK IC801 AND PERIPHERAL CIRCUIT.


ON SCREEN DISPLAY DOES NOT APPEAR.
IS THERE SIGNAL AT PINS 2, 3, 4 AND 5 OF IC101?
NO
CHECK IC101 AND PERIPHERAL CIRCUIT .
YES
IS THERE SIGNAL AT PINS 57, 58, 59 AND 60 OF IC801?
NO
CHECK NR801 AND PERIPHERAL CIRCUIT.
YES
CHECK IC801 AND PERIPHERAL CIRCUIT.

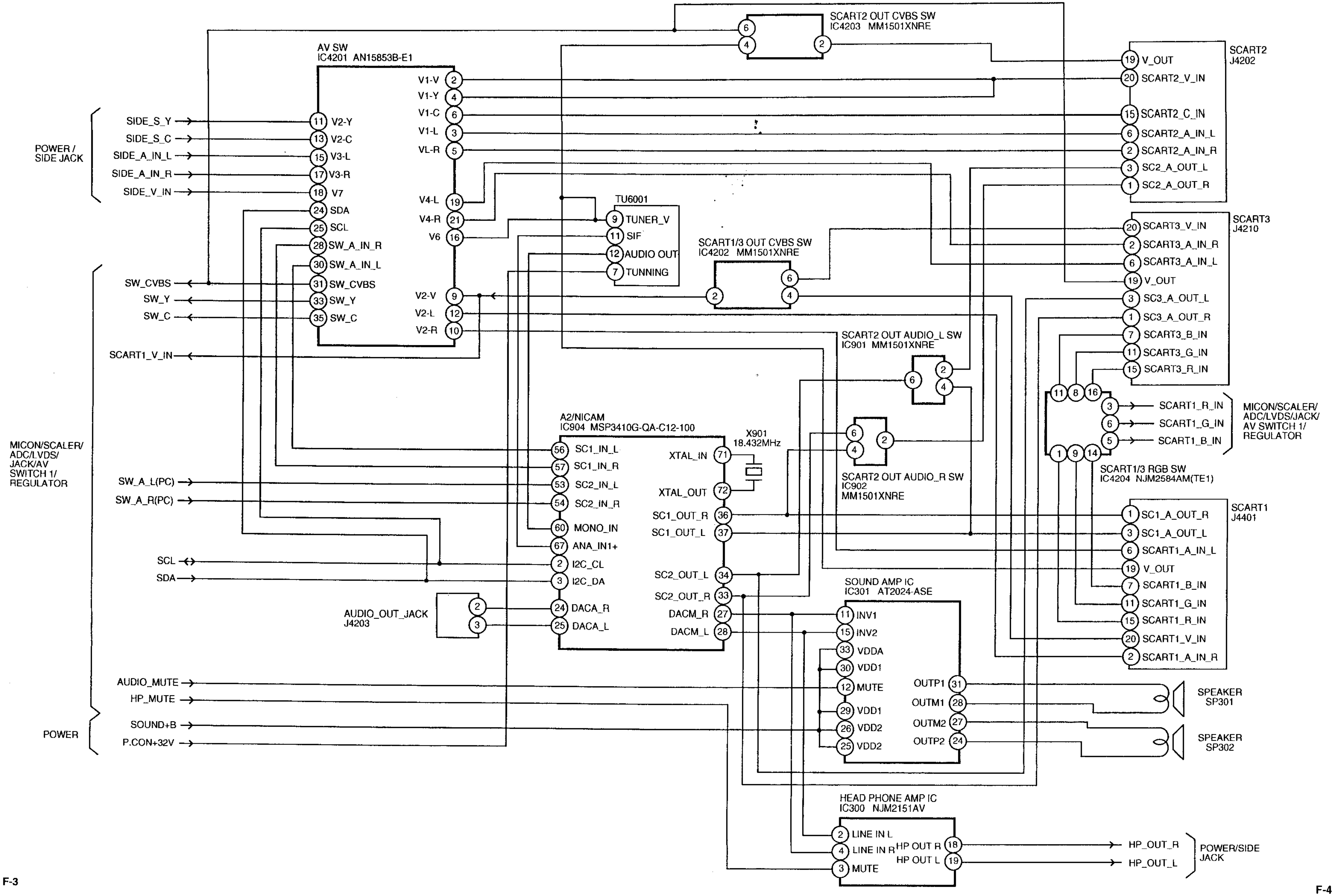
TROUBLESHOOTING GUIDE


THE SCREEN HAS A VERTICAL LINE OR A HORIZONTAL LINE.
IS THERE A NORMAL WAVEFORM AT PINS 31, 33 AND 35 OF IC4201?
NO
CHANGE IC4201.
YES
CHANGE V801.

MICON/SCALER/ADC/LVDS/JACK/AV_SW1/REGULATOR BLOCK DIAGRAM

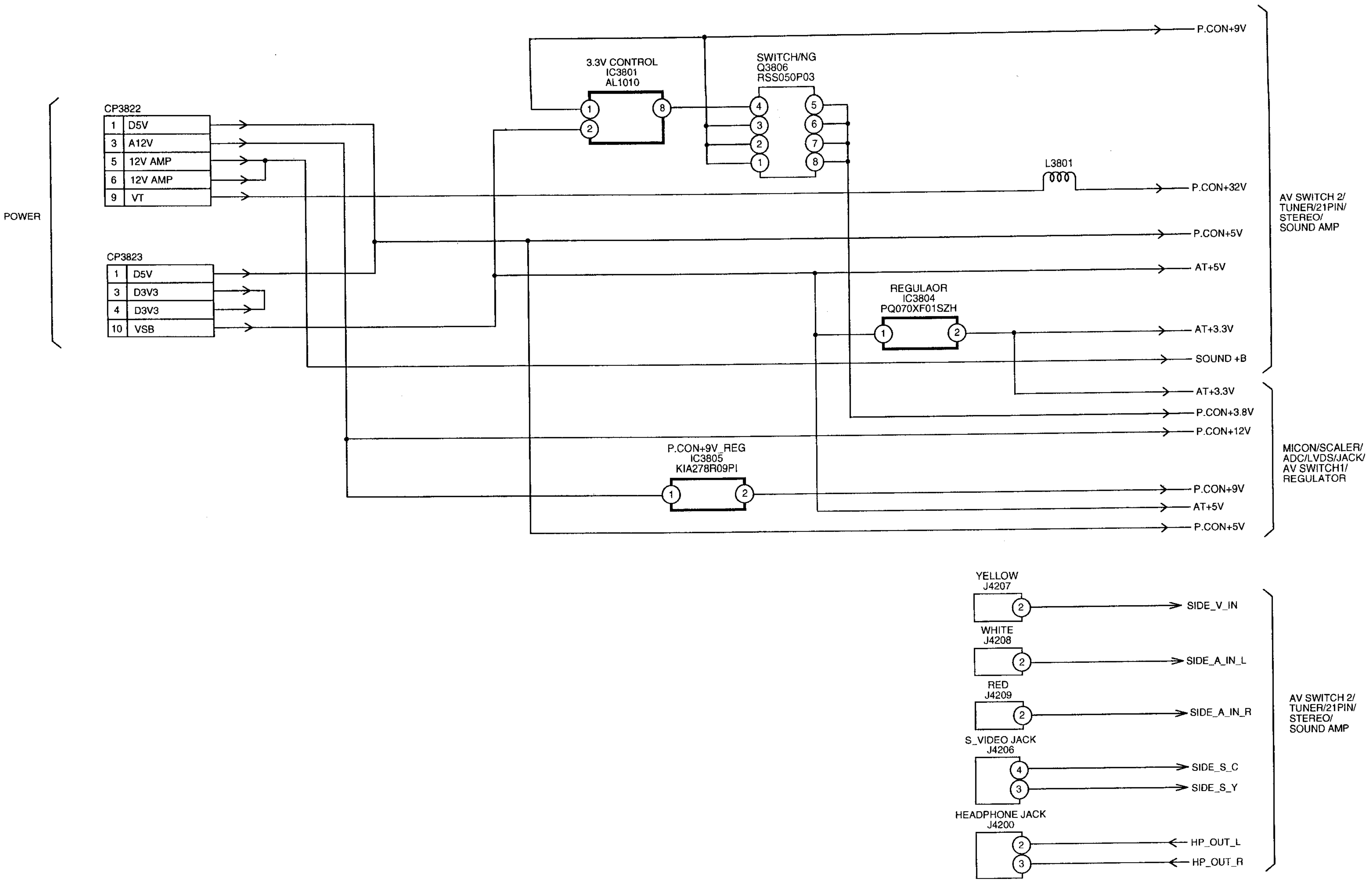

GREEN
J4304
BLUE
J4305
RED
J4306
AV/SW SYNC
COUNT
IC8102
TB1308 FG
IC8150
NJM2534V
IC8151
NJM2534V
IC8152
NJM2534V
D-SVB
CP4302
1 VGA_R
2 VGA_G
3 VGA_B
13 VGA_HS
14 VGA_VS
D-SVB
CP4301
1 Pb
2 Y
3 Pr
8 DAC_A-L
10 DAC_A-R
14 AUDIO-L
16 AUDIO-R
19 V SYNC
20 H SYNC
A/D CONVERTER
IC2101
MST9883C-LF-110
DIGITAL
24bit RGB
D_CLK, D_EN,
D_HS, D_VS
X801
54MHz
SCALER
IC801
R8J6604A71FP
DIGITAL
24bit RGB
D_CLK, D_EN,
D_HS, D_VS
LVDS IC
IC7201
DTC34LM85AL
TX OUT0~3+
TX OUT0~3-
TXCLKOUT+
TXCLKOUT-
PDP PANEL
V2301
4SI_SDA_IN/4SI_SCL
4SI_CHIP_SE/4SI_SDA_OUT
MICON
IC101
OEC7151A
6 EEP_SCL
5 EEP_SDA
EEPROM IC 256K
IC104
AT24C256N-10 SU-2.7
AV_SWITCH2/
TUNER/21PIN/
STEREO/SOUND
AMP
SW_CVBS
SW_Y
SW_C
SCART1_V_IN
SCART1_G_IN
SCART1_B_IN
SCART1_R_IN
SCL1
SDA1
Q8103
SYNC_SEPA
POWER
POWER_ON-H
POWER_FAIL
LCD-H
PDP-B
AT+3.3V
HP_MUTE
SYSTEM RESET
IC102
PST3229NR
RESET
D105
J4301
RED
J4303
WHITE
J4302
RCH SW
IC4301
MM1501XNRE
LCH SW
IC4302
MM1501XNRE
IC4305
NJM2534V
IC4304
NJM2534V
SW_AUDIO_R(PC)
SW_AUDIO_L(PC)
AV_SWITCH2/
TUNER/21PIN/
STEREO/SOUND
AMP
P.CON+5V
Q3207
SW
Q3205
SW
HDMI_VNREG+5V
HDMI_+5V

AV SWITCH 2/TUNER/21PIN/STEREO/SOUND AMP BLOCK DIAGRAM

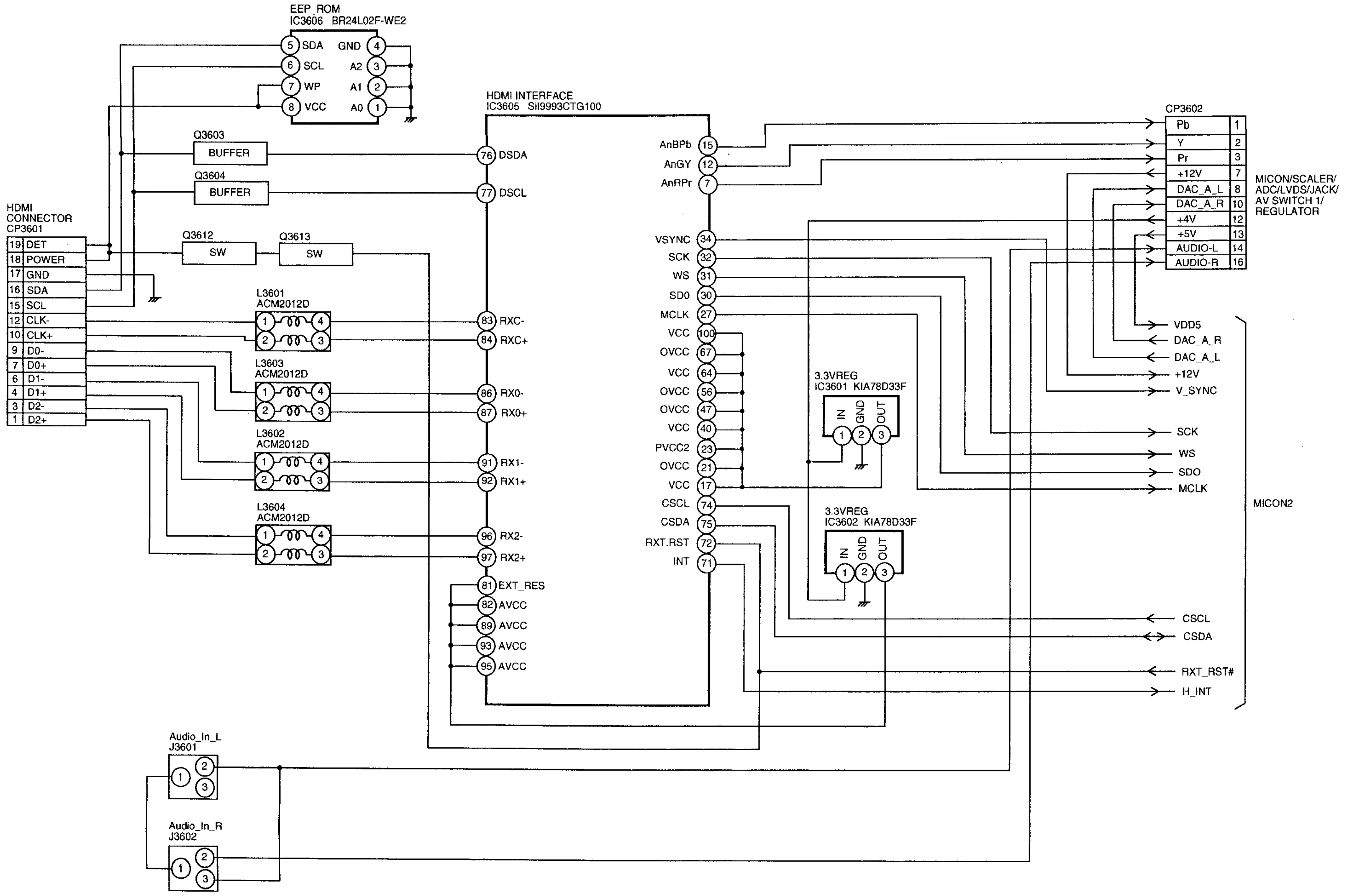


SCART2 OUT CVBS SW
IC4203 MM1501XNRE
AV SW
IC4201 AN15853B-E1
V1-V
V1-Y
V1-C
V1-L
VL-R
V4-L
V4-R
V6
V2-V
V2-L
V2-R
V2-Y
V2-C
V3-L
V3-R
V7
SDA
SCL
SW_A_IN_R
SW_A_IN_L
SW_CVBS
SW_Y
SW_C
SIDE_S_Y
SIDE_S_C
SIDE_A_IN_L
SIDE_A_IN_R
SIDE_V_IN
POWER / SIDE JACK
SW_CVBS
SW_Y
SW_C
SCART1_V_IN
MICON/SCALER/ ADC/LVDS/ JACK/AV SWITCH 1/ REGULATOR
SW_A_L(PC)
SW_A_R(PC)
SCL
SDA
AUDIO_MUTE
HP_MUTE
SOUND+B
P.CON+32V
POWER
TU6001
TUNER_V
SIF
AUDIO OUT
TUNNING
SCART1/3 OUT CVBS SW
IC4202 MM1501XNRE
SCART2 OUT AUDIO_L SW
IC901 MM1501XNRE
SCART2 OUT AUDIO_R SW
IC902
MM1501XNRE
A2/NICAM
IC904 MSP3410G-QA-C12-100
SC1_IN_L
SC1_IN_R
SC2_IN_L
SC2_IN_R
MONO_IN
ANA_IN1+
I2C_CL
I2C_DA
DACA_R
DACA_L
XTAL_IN
XTAL_OUT
SC1_OUT_R
SC1_OUT_L
SC2_OUT_L
SC2_OUT_R
DACM_R
DACM_L
X901
18.432MHz
AUDIO_OUT_JACK
J4203
SOUND AMP IC
IC301 AT2024-ASE
INV1
INV2
VDDA
VDD1
MUTE
VDD1
VDD2
VDD2
OUTP1
OUTM1
OUTM2
OUTP2
SPEAKER
SP301
SPEAKER
SP302
HEAD PHONE AMP IC
IC300 NJM2151AV
LINE IN L
LINE IN R
MUTE
HP OUT R
HP OUT L
HP_OUT_R
HP_OUT_L
POWER/SIDE JACK
SCART2
J4202
V_OUT
SCART2_V_IN
SCART2_C_IN
SCART2_A_IN_L
SCART2_A_IN_R
SC2_A_OUT_L
SC2_A_OUT_R
SCART3
J4210
SCART3_V_IN
SCART3_A_IN_R
SCART3_A_IN_L
V_OUT
SC3_A_OUT_L
SC3_A_OUT_R
SCART3_B_IN
SCART3_G_IN
SCART3_R_IN
SCART1_R_IN
SCART1_G_IN
SCART1_B_IN
MICON/SCALER/ ADC/LVDS/JACK/ AV SWITCH 1/ REGULATOR
SCART1/3 RGB SW
IC4204 NJM2584AM(TE1)
SCART1
J4401
SC1_A_OUT_R
SC1_A_OUT_L
SCART1_A_IN_L
V_OUT
SCART1_B_IN
SCART1_G_IN
SCART1_R_IN
SCART1_V_IN
SCART1_A_IN_R

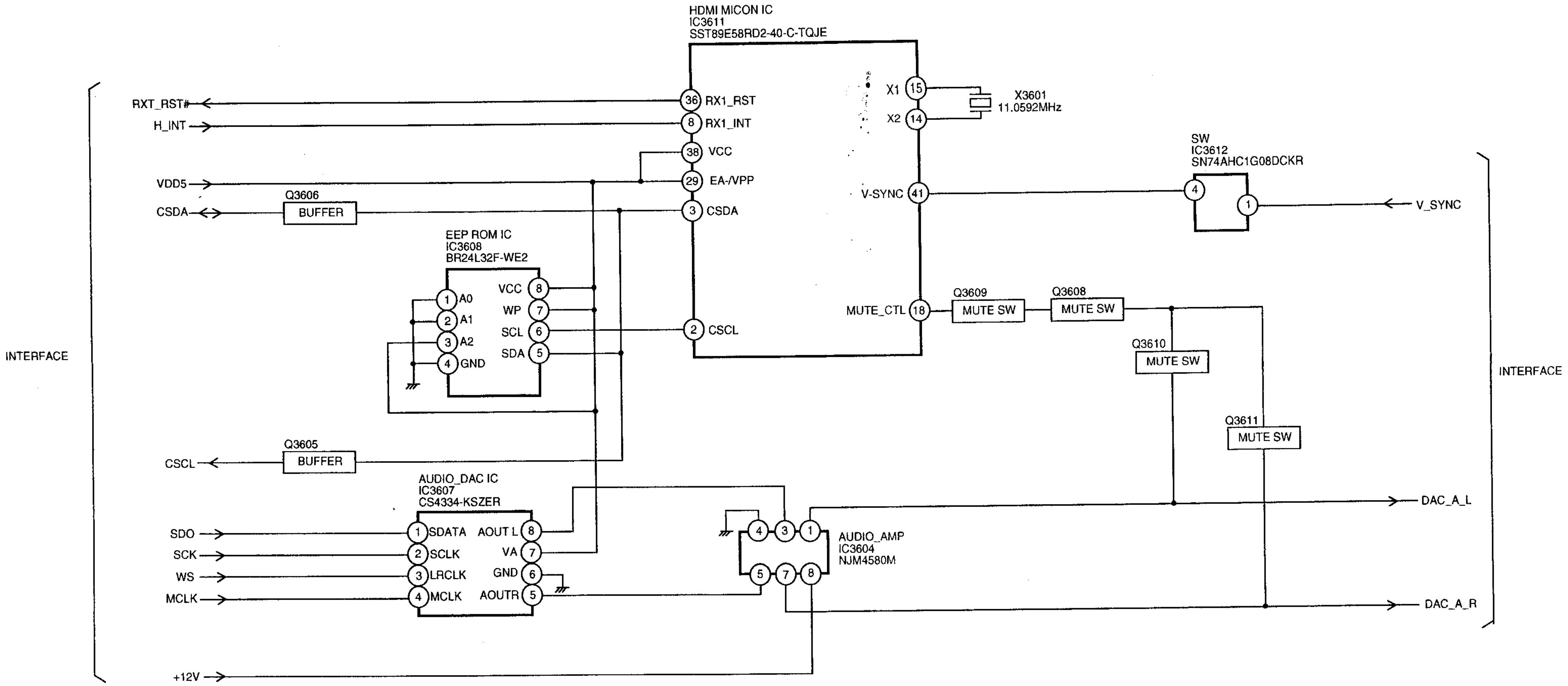
POWER/SIDE JACK BLOCK DIAGRAM


POWER
CP3822
1 D5V
3 A12V
5 12V AMP
6 12V AMP
9 VT
CP3823
1 D5V
3 D3V3
4 D3V3
10 VSB
3.3V CONTROL
IC3801
AL1010
SWITCH/NG
Q3806
RSS050P03
L3801
REGULAOR
IC3804
PQ070XF01SZH
P.CON+9V_REG
IC3805
KIA278R09PI
P.CON+9V
P.CON+32V
P.CON+5V
AT+5V
AT+3.3V
SOUND +B
AV SWITCH 2/
TUNER/21PIN/
STEREO/
SOUND AMP
AT+3.3V
P.CON+3.8V
P.CON+12V
P.CON+9V
AT+5V
P.CON+5V
MICON/SCALER/
ADC/LVDS/JACK/
AV SWITCH1/
REGULATOR
YELLOW
J4207
WHITE
J4208
RED
J4209
S_VIDEO JACK
J4206
HEADPHONE JACK
J4200
SIDE_V_IN
SIDE_A_IN_L
SIDE_A_IN_R
SIDE_S_C
SIDE_S_Y
HP_OUT_L
HP_OUT_R
AV SWITCH 2/
TUNER/21PIN/
STEREO/
SOUND AMP

INTERFACE BLOCK DIAGRAM

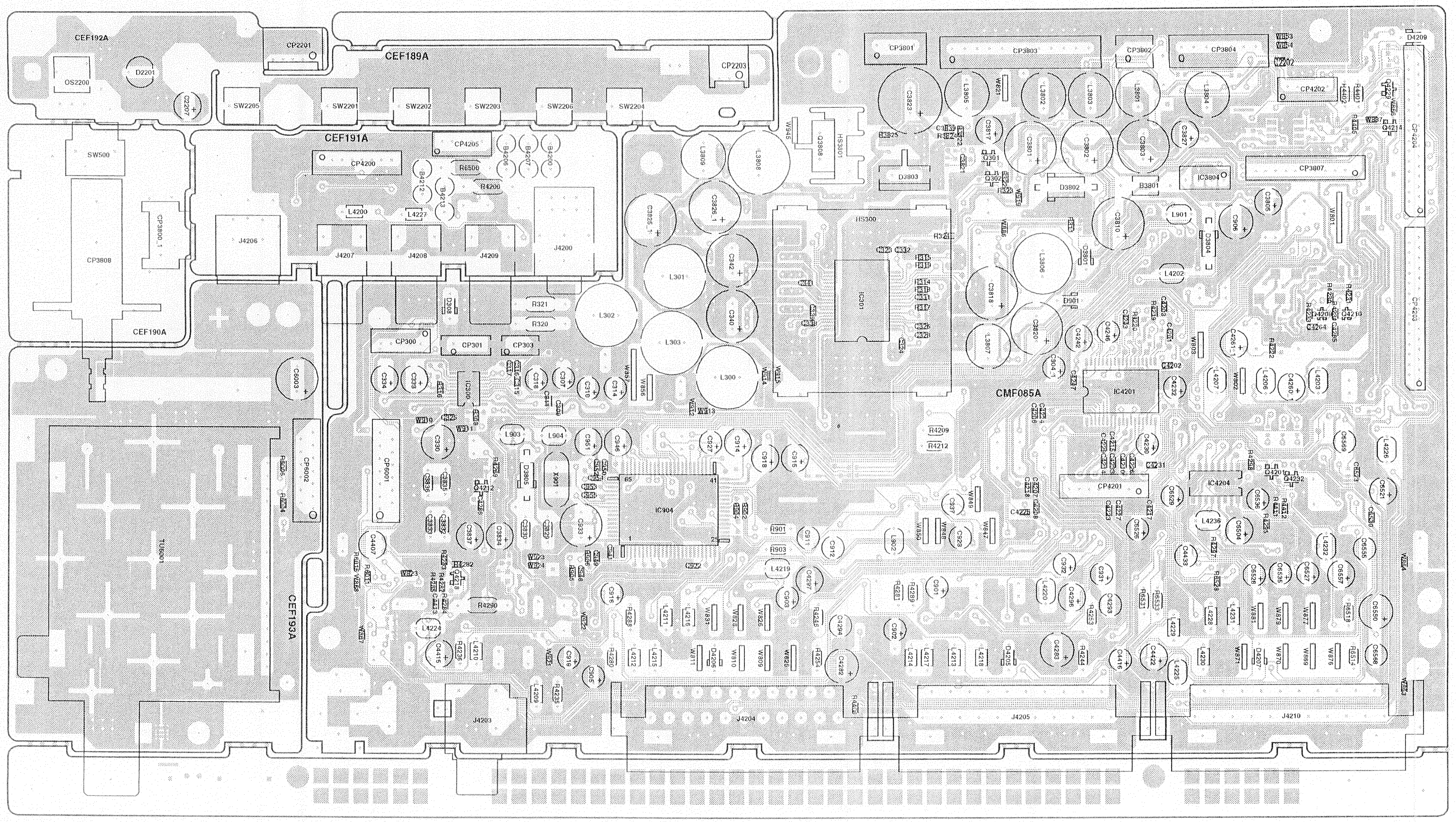

EEP_ROM
IC3606 BR24L02F-WE2
5 SDA
6 SCL
7 WP
8 VCC
GND 4
A2 3
A1 2
A0 1
HDMI INTERFACE
IC3605 Sil9993CTG100
Q3603
BUFFER
Q3604
BUFFER
HDMI
CONNECTOR
CP3601
19 DET
18 POWER
17 GND
16 SDA
15 SCL
12 CLK-
10 CLK+
9 D0-
7 D0+
6 D1-
4 D1+
3 D2-
1 D2+
Q3612
SW
Q3613
SW
L3601
ACM2012D
L3603
ACM2012D
L3602
ACM2012D
L3604
ACM2012D
76 DSDA
77 DSCL
83 RXC-
84 RXC+
86 RX0-
87 RX0+
91 RX1-
92 RX1+
96 RX2-
97 RX2+
81 EXT_RES
82 AVCC
89 AVCC
93 AVCC
95 AVCC
AnBPb 15
AnGY 12
AnRPr 7
VSYNC 34
SCK 32
WS 31
SD0 30
MCLK 27
VCC 100
OVCC 67
VCC 64
OVCC 56
OVCC 47
VCC 40
PVCC2 23
OVCC 21
VCC 17
CSCL 74
CSDA 75
RXT.RST 72
INT 71
3.3VREG
IC3601 KIA78D33F
IN
GND
OUT
3.3VREG
IC3602 KIA78D33F
CP3602
Pb 1
Y 2
Pr 3
+12V 7
DAC_A_L 8
DAC_A_R 10
+4V 12
+5V 13
AUDIO-L 14
AUDIO-R 16
MICON/SCALER/
ADC/LVDS/JACK/
AV SWITCH 1/
REGULATOR
VDD5
DAC_A_R
DAC_A_L
+12V
V_SYNC
SCK
WS
SDO
MCLK
MICON2
CSCL
CSDA
RXT_RST#
H_INT
Audio_In_L
J3601
Audio_In_R
J3602

MICON2 BLOCK DIAGRAM


INTERFACE
RXT_RST#
H_INT
VDD5
CSDA
CSCL
SDO
SCK
WS
MCLK
+12V
Q3606
BUFFER
Q3605
BUFFER
EEP ROM IC
IC3608
BR24L32F-WE2
1 A0
2 A1
3 A2
4 GND
VCC 8
WP 7
SCL 6
SDA 5
HDMI MICON IC
IC3611
SST89E58RD2-40-C-TQJE
36 RX1_RST
8 RX1_INT
38 VCC
29 EA-/VPP
3 CSDA
2 CSCL
X1 15
X2 14
V-SYNC 41
MUTE_CTL 18
X3601
11.0592MHz
SW
IC3612
SN74AHC1G08DCKR
4
1
V_SYNC
Q3609
MUTE SW
Q3608
MUTE SW
Q3610
MUTE SW
Q3611
MUTE SW
AUDIO_DAC IC
IC3607
CS4334-KSZER
1 SDATA
2 SCLK
3 LRCLK
4 MCLK
AOUT L 8
VA 7
GND 6
AOUTR 5
AUDIO_AMP
IC3604
NJM4580M
4
3
1
5
7
8
DAC_A_L
DAC_A_R
INTERFACE

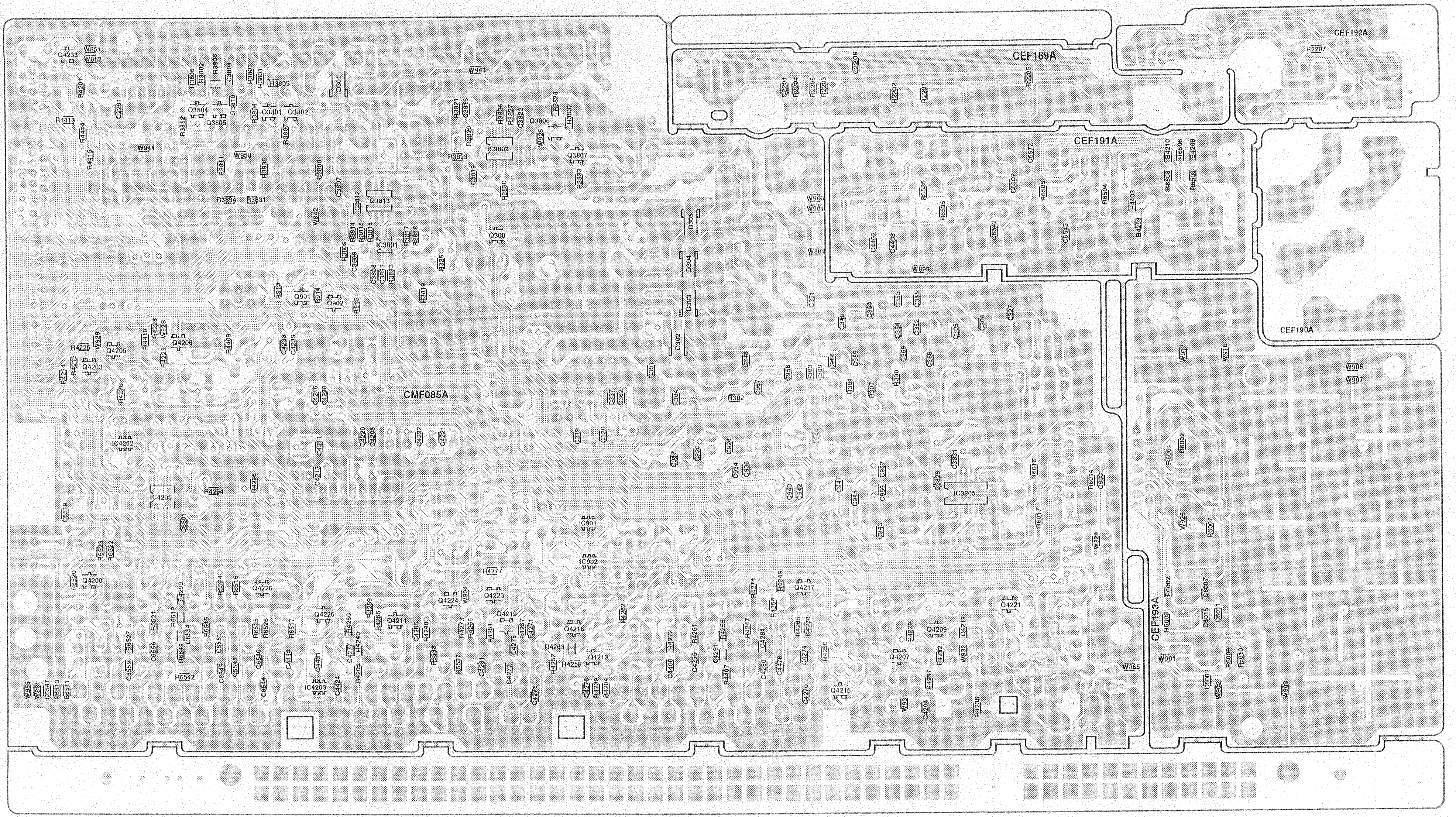
PRINTED CIRCUIT BOARDS

AV/OPERATION/TUNER/POWER SW/SIDE JACK (TOP SIDE)


CEF192A
CEF189A
CEF191A
CEF190A
CEF193A
CMF085A
CP2201
CP2203
SW2205
SW2201
SW2202
SW2203
SW2206
SW2204
OS2200
D2201
C2207
SW500
CP3808
CP3800_1
CP4205
CP4200
J4206
J4207
J4208
J4209
J4200
CP300
CP301
CP303
C6003
CP6002
CP6001
TU6001
IC300
IC904
X901
HS3801
Q3808
HS300
IC301
IC4201
CP4201
IC4204
CP3801
CP3803
CP3802
CP3804
CP4202
CP3807
CP4204
CP4203
D4209
IC3804
L300
L301
L302
L303
L3806
L3807
L3808
L3809
J4203
J4204
J4205
J4210

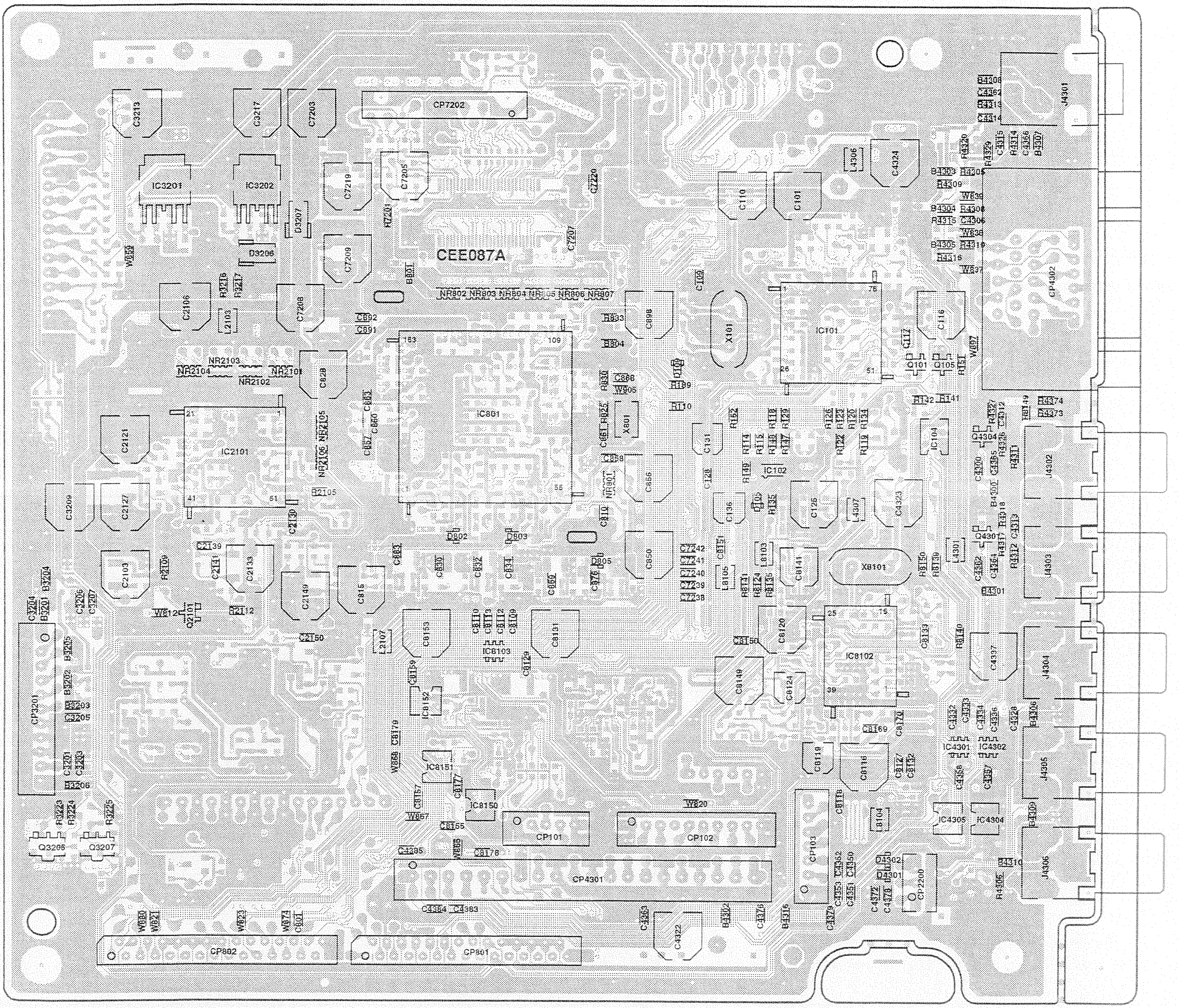
PRINTED CIRCUIT BOARDS

AV/OPERATION/TUNER/SIDE JACK (BOTTOM SIDE)

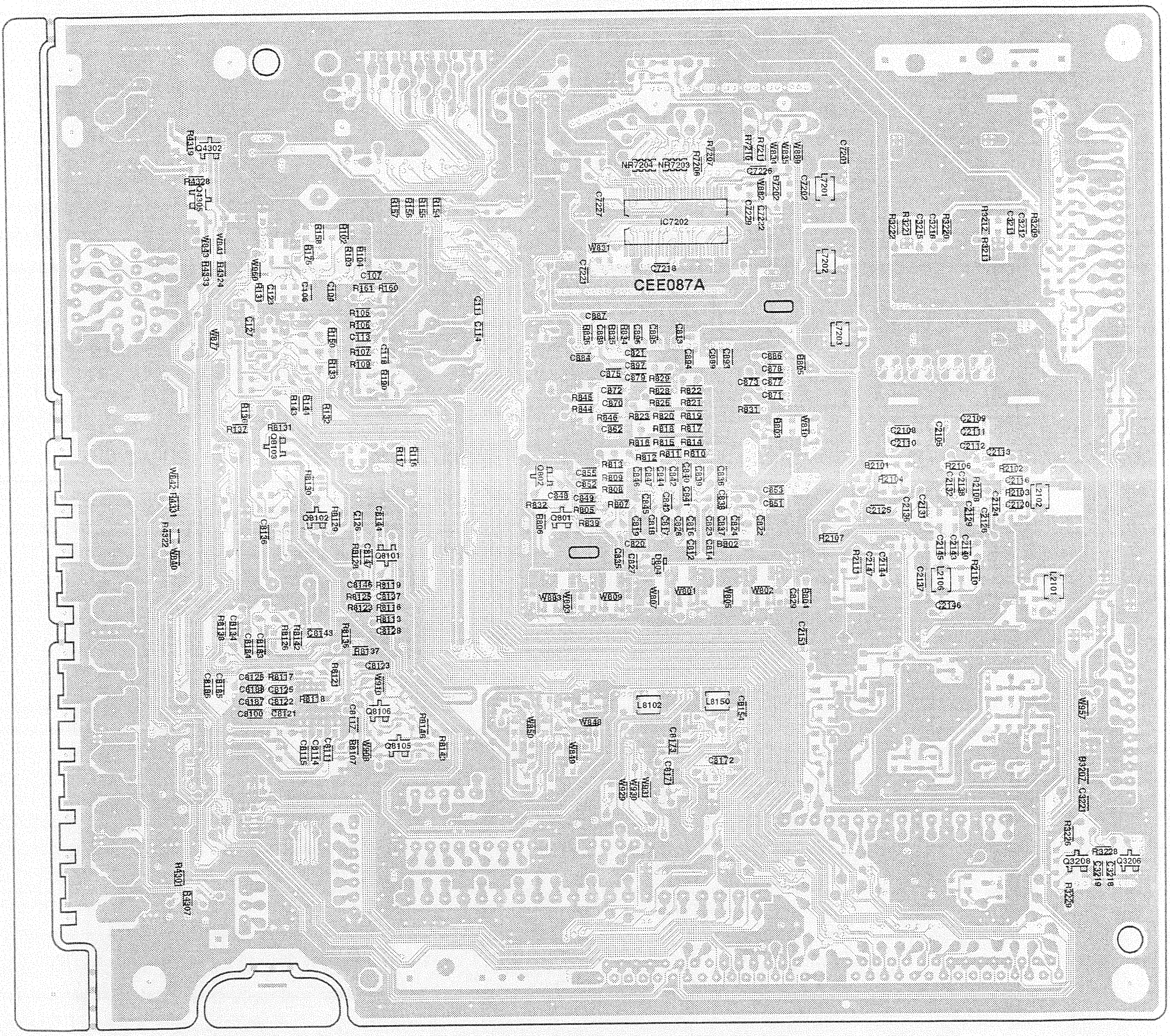

CEF192A
CEF189A
CEF191A
CEF190A
CEF193A
CMF085A
IC3803
IC3801
IC3805
IC901
IC902
IC4202
IC4205
IC4203

PRINTED CIRCUIT BOARDS

SCALER (TOP SIDE)

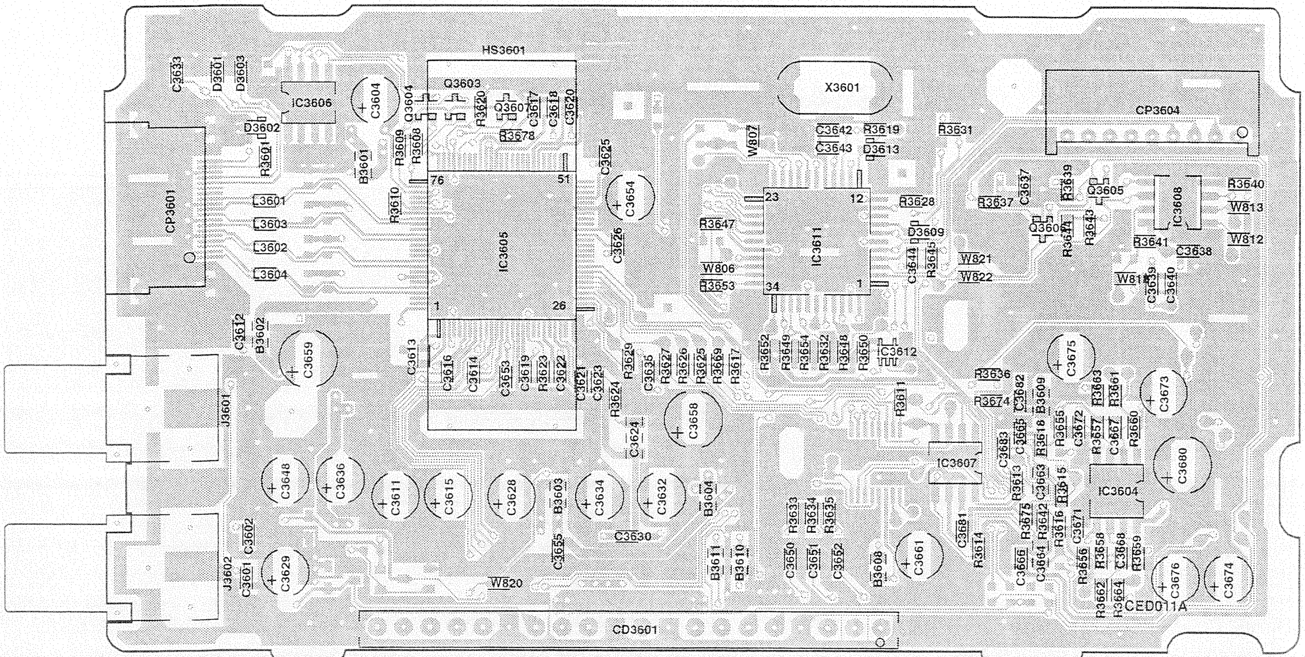


SCALER (BOTTOM SIDE)

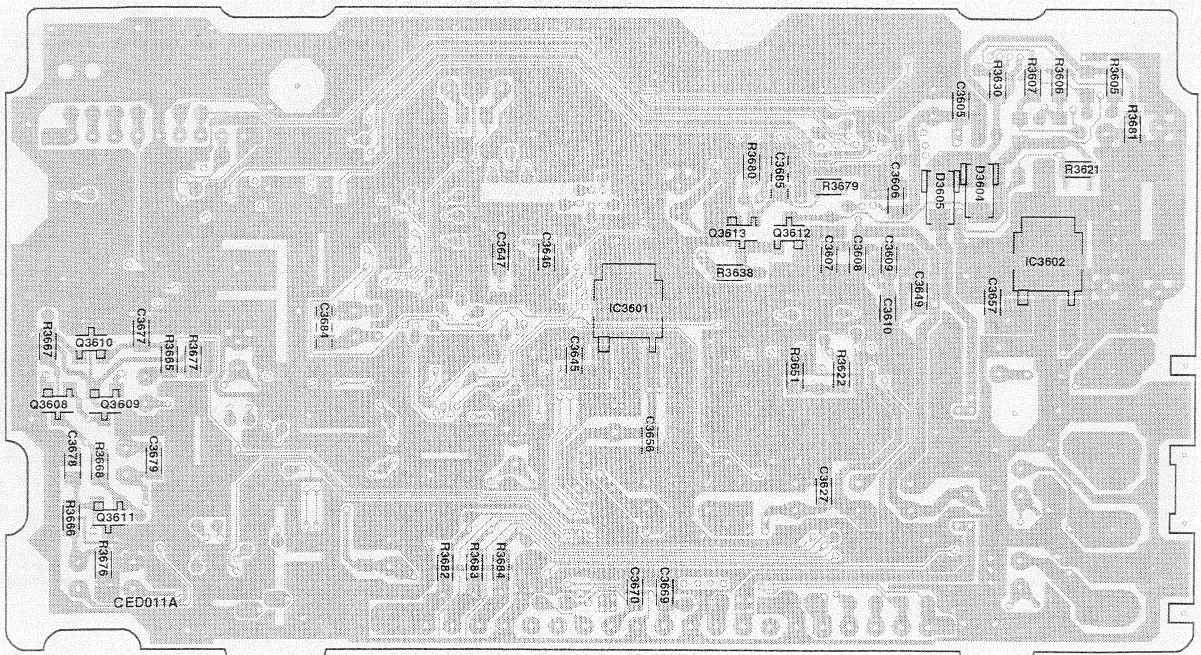

CEE087A
IC7202
NR7204
NR7203
L7201
L7202
L7203
L2101
L2102
L8102
L8150
Q4302
Q8101
Q8102
Q8103
Q8105
Q8106
Q801
Q802
Q804
Q3206
Q3208

PRINTED CIRCUIT BOARDS

HD-MI (TOP SIDE)

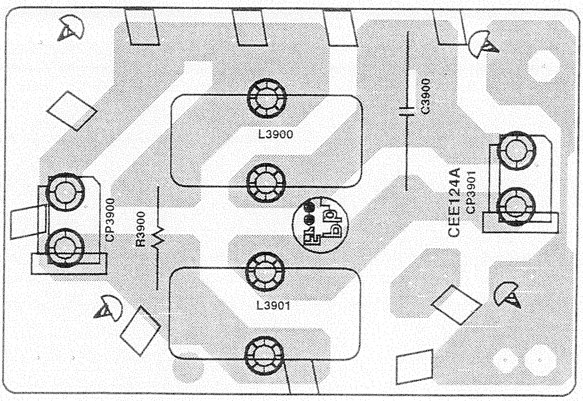

HS3601
Q3603
IC3606
X3601
CP3604
CP3601
IC3605
IC3611
IC3608
Q3605
J3601
J3602
IC3607
IC3604
CD3601
CED011A
C3633
D3601
D3603
D3602
R3601
B3601
C3604
Q3604
Q3607
R3620
C3617
C3618
C3620
R3678
R3609
R3606
R3610
L3601
L3603
L3602
L3604
C3625
C3654
C3626
W807
C3642
C3643
R3619
D3613
R3631
R3628
R3647
W806
R3653
D3609
C3644
W821
W822
R3637
C3637
R3639
Q3606
R3644
R3643
R3640
W813
W812
R3641
C3638
W811
C3639
C3640
C3612
B3602
C3659
C3613
C3616
C3614
C3653
C3619
R3623
C3622
C3621
C3623
R3629
R3624
C3635
R3627
R3626
R3625
R3669
R3617
R3652
R3649
R3654
R3632
R3648
R3650
R3611
C3658
C3624
C3675
C3673
R3636
R3674
C3682
B3609
R3663
R3661
C3680
C3648
C3636
C3611
C3615
C3628
B3603
C3634
C3632
B3604
C3630
C3655
W820
B3611
B3610
C3602
C3601
C3629
C3650
R3633
R3634
R3635
C3651
C3652
B3608
C3661
C3681
R3614
C3666
C3664
C3676
C3674
R3662
R3664
R3659
C3668
R3658
R3656
C3671

HD-MI (BOTTOM SIDE)


R3630
R3607
R3606
R3605
C3605
R3681
R3680
C3665
R3679
C3606
D3605
D3604
R3621
Q3613
Q3612
C3607
C3608
C3609
R3638
C3647
C3646
IC3601
IC3602
C3649
C3610
C3657
C3684
C3645
R3651
R3622
R3667
Q3610
C3677
R3665
R3677
Q3608
Q3609
C3678
R3668
C3679
C3656
C3627
R3666
Q3611
R3676
R3682
R3683
R3684
C3670
C3669
CED011A

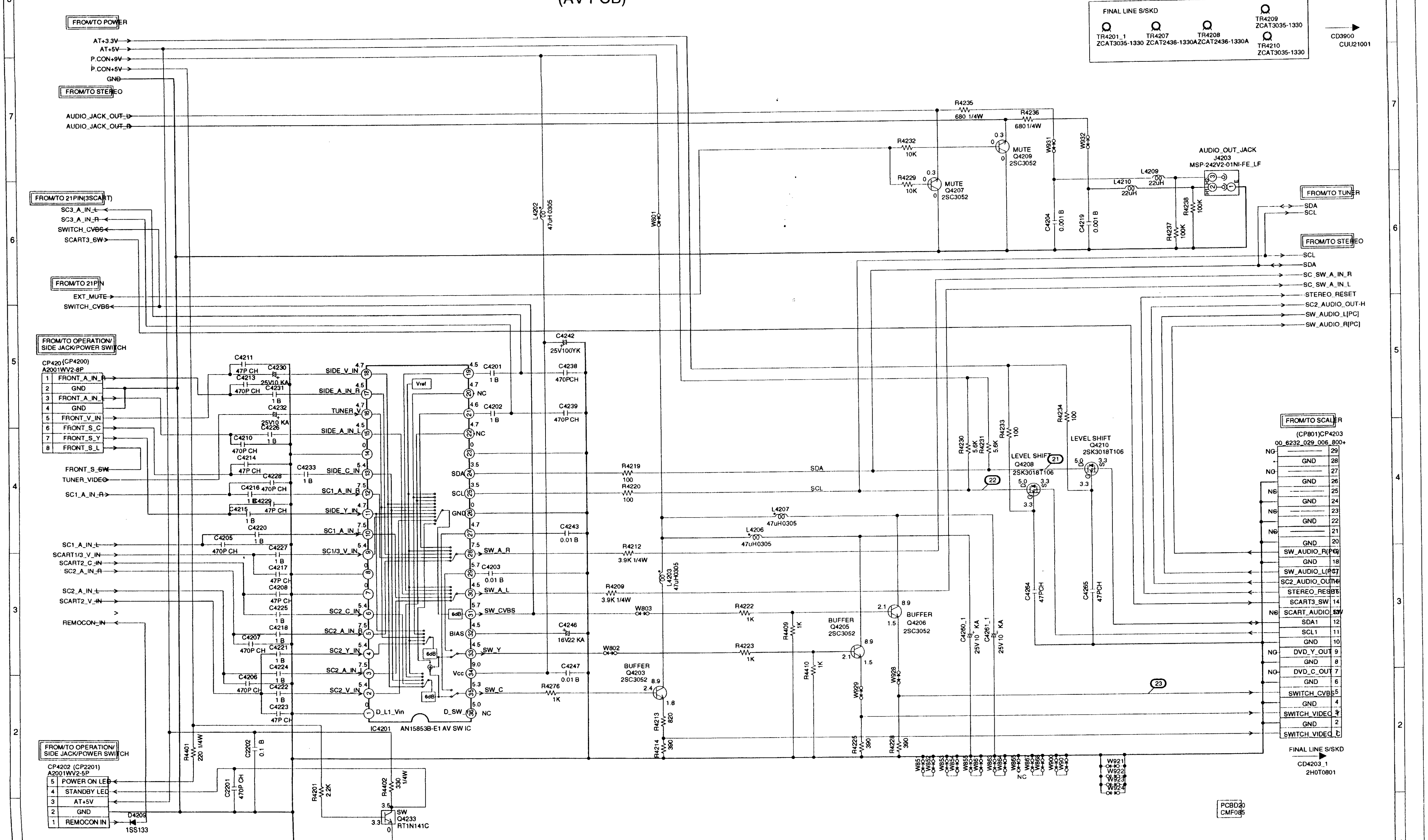
FILTER

SOLDER SIDE

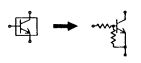

C3900
L3900
CP3900
R3900
CEE124A
CP3901
L3901

AV SWITCH2 SCHEMATIC DIAGRAM

(AV PCB)


FROM/TO POWER
AT+3.3V
AT+5V
P.CON+9V
P.CON+5V
GND
FROM/TO STEREO
AUDIO_JACK_OUT_L
AUDIO_JACK_OUT_R
FROM/TO 21PIN(3SCART)
SC3_A_IN_L
SC3_A_IN_R
SWITCH_CVBS
SCART3_6W
FROM/TO 21PIN
EXT_MUTE
SWITCH_CVBS
FROM/TO OPERATION/ SIDE JACK/POWER SWITCH
CP4201(CP4200) A2001WV2-8P
1 FRONT_A_IN_R
2 GND
3 FRONT_A_IN_L
4 GND
5 FRONT_V_IN
6 FRONT_S_C
7 FRONT_S_Y
8 FRONT_S_L
FRONT_S_6W
TUNER_VIDEO
SC1_A_IN_R
SC1_A_IN_L
SCART1/3_V_IN
SCART2_C_IN
SC2_A_IN_R
SC2_A_IN_L
SCART2_V_IN
REMOCON_IN
FROM/TO OPERATION/ SIDE JACK/POWER SWITCH
CP4202 (CP2201) A2001WV2-5P
5 POWER ON LED
4 STANDBY LED
3 AT+5V
2 GND
1 REMOCON IN
D4209 1SS133
FINEL LINE S/SKD
CD4202_1 CU257901
IC4201 AN15853B-E1 AV SW IC
SIDE_V_IN
SIDE_A_IN_R
TUNER_V
SIDE_A_IN_L
SIDE_C_IN
SC1_A_IN_R
SIDE_Y_IN
SC1_A_IN_L
SC1/3_V_IN
SC2_C_IN
SC2_A_IN_R
SC2_Y_IN
SC2_A_IN_L
SC2_V_IN
D_L1_Vin
D_SW
Vref
SDA
SCL
GND
BIAS
Vcc
6dB
SW_A_R
SW_A_L
SW_CVBS
SW_Y
SW_C
NC
C4201 1B
C4202 1B
C4203 0.01B
C4242 25V100YK
C4238 470PCH
C4239 470PCH
C4243 0.01B
C4246 16V22 KA
C4247 0.01B
R4219 100
R4220 100
R4212 3.9K 1/4W
R4209 3.9K 1/4W
R4276 1K
W801
W802
W803
L4202 47uH0305
L4203 47uH0305
L4206 47uH0305
L4207 47uH0305
BUFFER Q4203 2SC3052
BUFFER Q4205 2SC3052
BUFFER Q4206 2SC3052
R4213 820
R4214 390
R4222 1K
R4223 1K
R4409 1K
R4410 1K
R4225 390
R4228 390
W928
W929
C4260_1 25V10 KA
C4261_1 25V10 KA
C4264 47PCH
C4265 47PCH
R4230 5.6K
R4231 5.6K
R4233 100
R4234 100
LEVEL SHIFT Q4208 2SK3018T106
LEVEL SHIFT Q4210 2SK3018T106
MUTE Q4207 2SC3052
MUTE Q4209 2SC3052
R4229 10K
R4232 10K
R4235 680 1/4W
R4236 680 1/4W
W931
W932
C4204 0.001 B
C4219 0.001 B
L4209 22uH
L4210 22uH
R4237 100K
R4238 100K
AUDIO_OUT_JACK J4203 MSP-242V2-01NI-FE_LF
FROM/TO TUNER
SDA
SCL
FROM/TO STEREO
SCL
SDA
SC_SW_A_IN_R
SC_SW_A_IN_L
STEREO_RESET
SC2_AUDIO_OUT-H
SW_AUDIO_L[PC]
SW_AUDIO_R[PC]
FROM/TO SCALER
(CP801)CP4203
00_6232_029_006_800+
GND
SW_AUDIO_R[PC]
SW_AUDIO_L[PC]
SC2_AUDIO_OUT-H
STEREO_RESET
SCART3_SW
SCART_AUDIO_SW
SDA1
SCL1
DVD_Y_OUT
DVD_C_OUT
SWITCH_CVBS
SWITCH_VIDEO_2
SWITCH_VIDEO_1
NC
FINAL LINE S/SKD
CD4203_1 2H0T0801
FINAL LINE S/SKD
TR4201_1 ZCAT3035-1330
TR4207 ZCAT2436-1330A
TR4208 ZCAT2436-1330A
TR4209 ZCAT3035-1330
TR4210 ZCAT3035-1330
CD3900 CUU21001
R4401 220 1/4W
C2202 0.1 B
C2201 470P CH
R4201 2.2K
R4402 330 1/4W
SW Q4233 RT1N141C
PCBD20 CMF085
H-1
H-2

CAUTION: DIGITAL TRANSISTOR

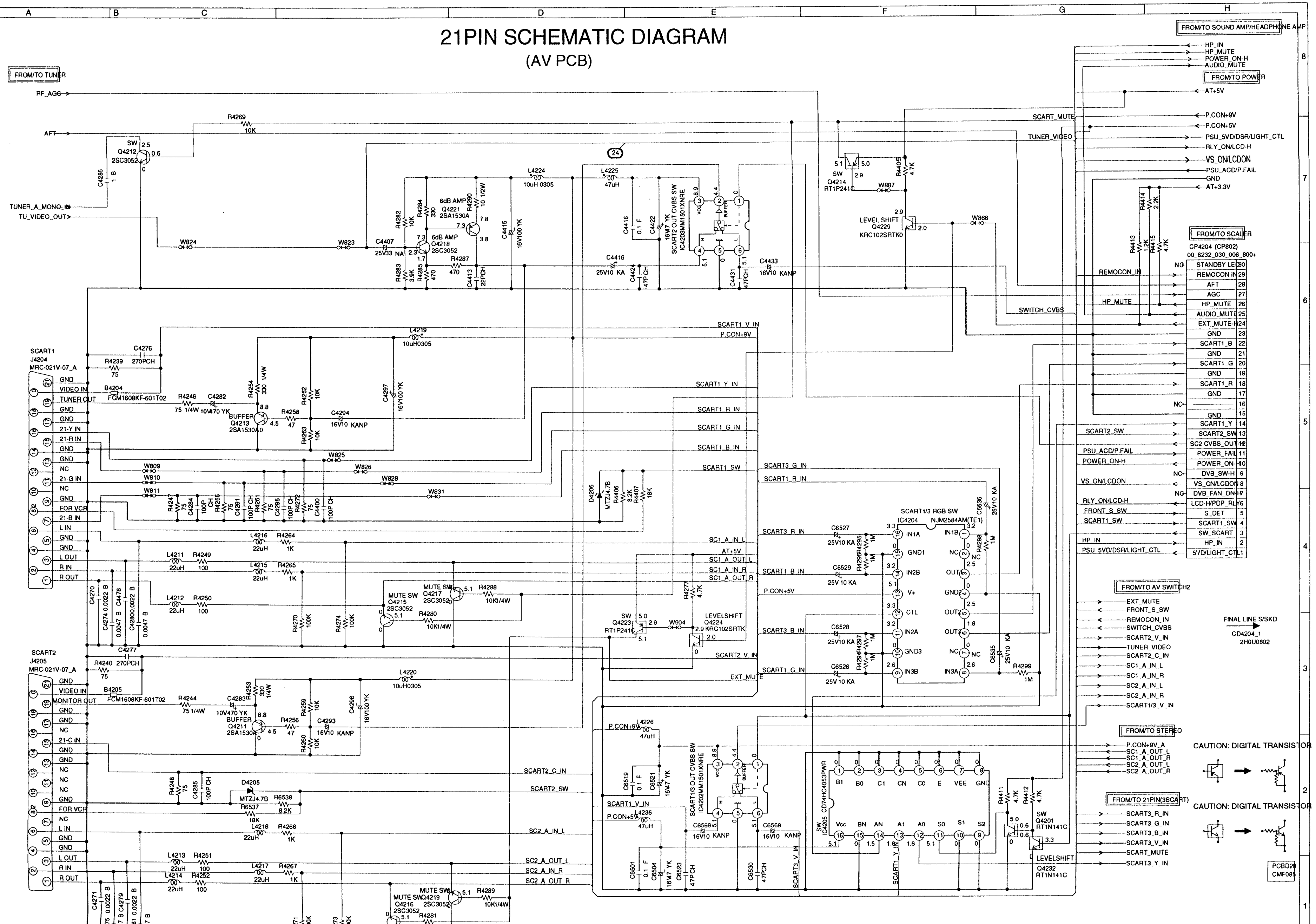


NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

21PIN SCHEMATIC DIAGRAM

(AV PCB)



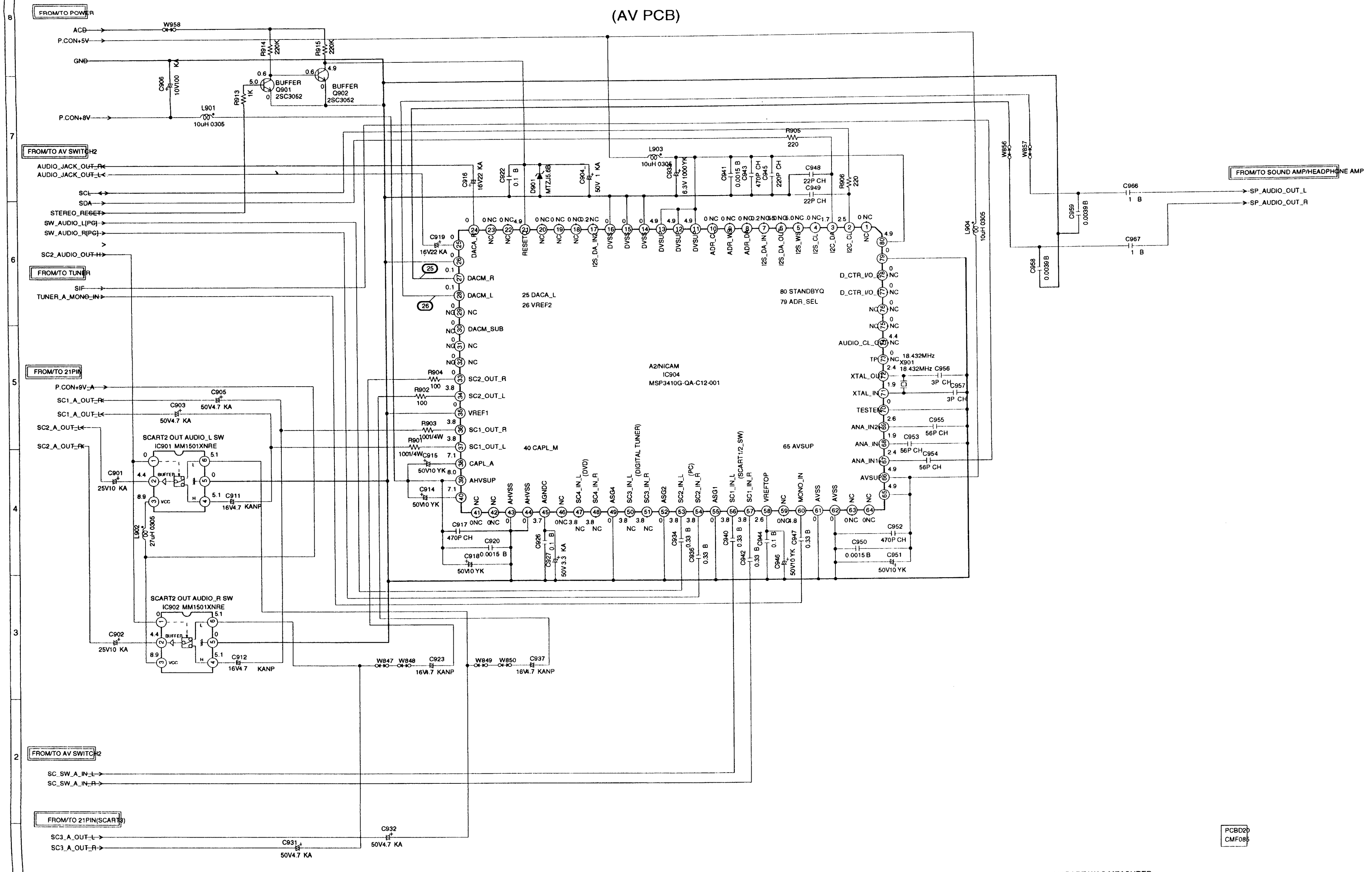
FROM/TO TUNER
RF_AGC
AFT
TUNER_A_MONO_IN
TU_VIDEO_OUT
SW Q4212 2SC3052
R4269 10K
L4224 10uH 0305
L4225 47uH
6dB AMP Q4221 2SA1530A
6dB AMP Q4218 2SC3052
SCART2 OUT CVBS SW IC4203MM1501XNRE
LEVEL SHIFT Q4229 KRC102SRTK0
SW Q4214 RT1P241C
SCART1 J4204 MRC-021V-07_A
SCART2 J4205 MRC-021V-07_A
BUFFER Q4213 2SA1530A
BUFFER Q4211 2SA1530A
MUTE SW Q4215 2SC3052
MUTE SW Q4217 2SC3052
MUTE SW Q4216 2SC3052
MUTE SW Q4219 2SC3052
D4206 MTZJ4.7B
D4205 MTZJ4.7B
SCART1/3 RGB SW IC4204 NJM2584AM(TE1)
SCART1/3 OUT CVBS SW IC4202MM1501XNRE
SW IC4205 CD74HC4053PWR
LEVELSHIFT Q4224 KRC102SRTK
SW Q4223 RT1P241C
SW Q4201 RT1N141C
LEVELSHIFT Q4232 RT1N141C
FROM/TO SOUND AMP/HEADPHONE AMP
HP_IN
HP_MUTE
POWER_ON-H
AUDIO_MUTE
FROM/TO POWER
AT+5V
P.CON+9V
P.CON+5V
PSU_5VD/DSR/LIGHT_CTL
RLY_ON/LCD-H
VS_ON/LCDON
PSU_ACD/P.FAIL
GND
AT+3.3V
FROM/TO SCALER
CP4204 (CP802)
00_6232_030_006_800+
STANDBY LED
REMOCON IN
AFT
AGC
HP_MUTE
AUDIO_MUTE
EXT_MUTE-H
SCART1_B
SCART1_G
SCART1_R
SCART1_Y
SCART2_SW
SC2 CVBS_OUT
POWER_FAIL
POWER_ON-H
DVB_SW-H
VS_ON/LCDON
DVB_FAN_ON-H
LCD-H/PDP_RL
S_DET
SCART1_SW
SW_SCART
HP_IN
5'/D/LIGHT_CTL
FROM/TO AV SWITCH2
EXT_MUTE
FRONT_S_SW
REMOCON_IN
SWITCH_CVBS
SCART2_V_IN
TUNER_VIDEO
SCART2_C_IN
SC1_A_IN_L
SC1_A_IN_R
SC2_A_IN_L
SC2_A_IN_R
SCART1/3_V_IN
FINAL LINE S/SKD
CD4204_1
2H0U0802
FROM/TO STEREO
P.CON+9V_A
SC1_A_OUT_L
SC1_A_OUT_R
SC2_A_OUT_L
SC2_A_OUT_R
FROM/TO 21PIN(3SCART)
SCART3_R_IN
SCART3_G_IN
SCART3_B_IN
SCART3_V_IN
SCART_MUTE
SCART3_Y_IN
CAUTION: DIGITAL TRANSISTOR
CAUTION: DIGITAL TRANSISTOR
PCB020
CMF085

NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

STEREO SCHEMATIC DIAGRAM

(AV PCB)

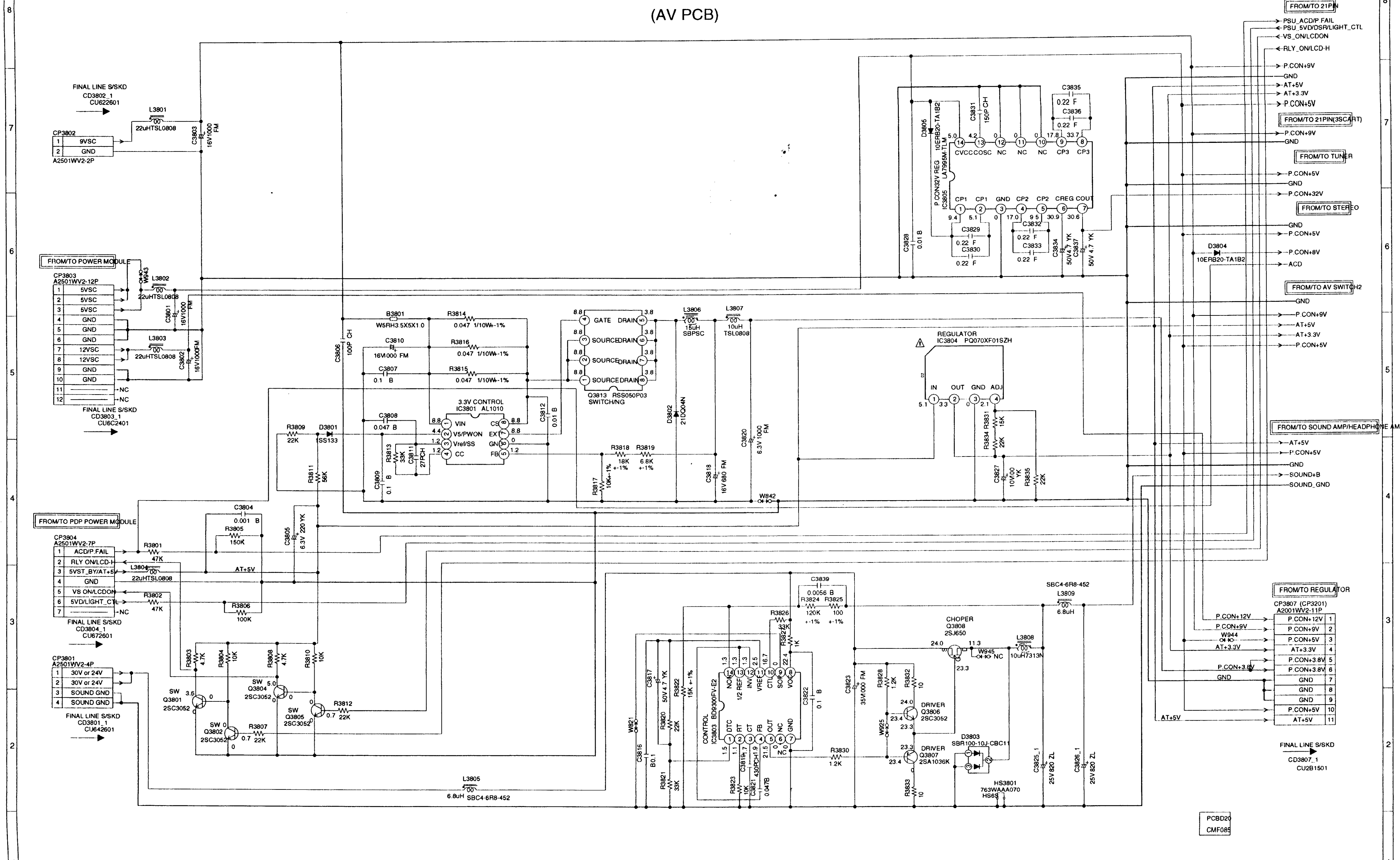

FROM/TO POWER
ACB
P.CON+5V
GND
P.CON+8V
W958
C906 10V100 KA
L901 10uH 0305
R913 1K
R914 220K
R915 220K
BUFFER Q901 2SC3052
BUFFER Q902 2SC3052
FROM/TO AV SWITCH2
AUDIO_JACK_OUT_R
AUDIO_JACK_OUT_L
SCL
SDA
STEREO_RESET
SW_AUDIO_L[PG]
SW_AUDIO_R[PG]
SC2_AUDIO_OUT-H
FROM/TO TUNER
SIF
TUNER_A_MONO_IN
FROM/TO 21PIN
P.CON+9V_A
SC1_A_OUT_R
SC1_A_OUT_L
SC2_A_OUT_L
SC2_A_OUT_R
C903 50V4.7 KA
C905 50V4.7 KA
SCART2 OUT AUDIO_L SW
IC901 MM1501XNRE
C901 25V10 KA
C911 16V4.7 KANP
L902 27uH 0305
SCART2 OUT AUDIO_R SW
IC902 MM1501XNRE
C902 25V10 KA
C912 16V4.7 KANP
BUFFER
VCC
FROM/TO AV SWITCH2
SC_SW_A_IN_L
SC_SW_A_IN_R
FROM/TO 21PIN(SCART3)
SC3_A_OUT_L
SC3_A_OUT_R
C931 50V4.7 KA
C932 50V4.7 KA
W847
W848
C923 16V4.7 KANP
W849
W850
C937 16V4.7 KANP
C916 16V22 KA
C922 0.1 B
D901 MTZJ5.6B
C904 50V 1 KA
L903 10uH 0305
C938 6.3V 1000YK
C941 0.0015 B
C943 470P CH
C945 220P CH
C948 22P CH
C949 22P CH
R905 220
R906 220
C919 16V22 KA
R904 100
R902 100
R903 1001/4W
R901 1001/4W
C915 50V10 YK
C914 50V10 YK
C917 470P CH
C918 50V10 YK
C920 0.0015 B
C926 0.1 B
C927 50V 3.3 KA
C934
C936 0.33 B
C940 0.33 B
C942 0.33 B
C944 0.1 B
C946 50V10 YK
C947 0.33 B
C950 0.0015 B
C951 50V10 YK
C952 470P CH
C953 56P CH
C954 56P CH
C955 56P CH
C956 3P CH
C957 3P CH
X901 18.432MHz
L904 10uH 0305
W856
W857
C958 0.0039 B
C959 0.0039 B
C966 1 B
C967 1 B
FROM/TO SOUND AMP/HEADPHONE AMP
SP_AUDIO_OUT_L
SP_AUDIO_OUT_R
A2/NICAM
IC904
MSP3410G-QA-C12-001
25 DACA_L
26 VREF2
40 CAPL_M
65 AVSUP
80 STANDBYQ
79 ADR_SEL
NC
I2C_CL
I2C_DA
I2S_CL
I2S_WS
I2S_DA_OUT
I2S_DA_IN
ADR_DA
ADR_WS
ADR_CL
DVSUP
DVSS
I2S_DA_IN2
RESET
DACA_R
DACM_R
DACM_L
DACM_SUB
SC2_OUT_R
SC2_OUT_L
VREF1
SC1_OUT_R
SC1_OUT_L
CAPL_A
AHVSUP
AHVSS
AGNDC
SC4_IN_L
SC4_IN_R
(DVD)
ASG4
SC3_IN_L
SC3_IN_R
(DIGITAL TUNER)
ASG2
SC2_IN_L
SC2_IN_R
(PC)
ASG1
SC1_IN_L
SC1_IN_R
(SCART1/2_SW)
VREFTOP
MONO_IN
AVSS
AVSUP
ANA_IN1+
ANA_IN1-
ANA_IN2+
TESTEN
XTAL_IN
XTAL_OUT
TP
AUDIO_CL_OUT
D_CTR_I/O_0
D_CTR_I/O_1
25
26
PCBD20
CMF085

NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

POWER SCHEMATIC DIAGRAM

(AV PCB)


FINAL LINE S/SKD
CD3802_1
CU622601
CP3802
9VSC
GND
A2501WV2-2P
L3801
22uHTSL0808
C3803
16V1000 FM
FROM/TO POWER MODULE
CP3803
A2501WV2-12P
5VSC
GND
12VSC
NC
W943
L3802
22uHTSL0808
L3803
C3801
16V1000
C3802
16V1000FM
FINAL LINE S/SKD
CD3803_1
CU6C2401
C3806
100P CH
B3801
W5RH3.5X5X1.0
C3810
16V1000 FM
C3807
0.1 B
R3814
0.047 1/10W-1%
R3816
0.047 1/10W-1%
R3815
0.047 1/10W-1%
3.3V CONTROL
IC3801 AL1010
VIN
V5/PWON
Vref/SS
CC
CS
EXT
GND
FB
C3808
0.047 B
R3813
33K
C3811
27PCH
C3809
0.1 B
C3812
0.01 B
R3809
22K
D3801
1SS133
R3811
56K
GATE
DRAIN
SOURCE
Q3813 RSS050P03
SWITCHING
L3806
15uH
SBPSC
L3807
10uH
TSL0808
D3802
21DQ04N
C3820
6.3V1000 FM
R3817
10K+-1%
R3818
18K +-1%
R3819
6.8K +-1%
C3818
16V 680 FM
W842
REGULATOR
IC3804 PQ070XF01SZH
IN
OUT
GND
ADJ
R3831
15K
R3834
22K
C3827
10V100 YK
R3835
22K
C3835
0.22 F
C3836
0.22 F
D3805
10ERB20-TA1B2
P.CON32V REG
IC3805
LA7995M-TLM
C3831
150P CH
CVCC
COSC
NC
CP3
CP1
CP2
CREG
COUT
C3829
0.22 F
C3830
0.22 F
C3832
0.22 F
C3833
0.22 F
C3834
50V4.7 YK
C3837
50V 4.7 YK
C3828
0.01 B
D3804
10ERB20-TA1B2
FROM/TO 21PIN
PSU_ACD/P.FAIL
PSU_5VD/DSR/LIGHT_CTL
VS_ON/LCDON
RLY_ON/LCD-H
P.CON+9V
GND
AT+5V
AT+3.3V
P.CON+5V
FROM/TO 21PIN(3SCART)
FROM/TO TUNER
P.CON+32V
FROM/TO STEREO
P.CON+8V
ACD
FROM/TO AV SWITCH2
FROM/TO SOUND AMP/HEADPHONE AMP
SOUND+B
SOUND_GND
FROM/TO PDP POWER MODULE
CP3804
A2501WV2-7P
ACD/P.FAIL
RLY ON/LCD-H
5VST_BY/AT+5V
VS ON/LCDON
5VD/LIGHT_CTL
R3801
47K
R3802
47K
L3804
22uHTSL0808
C3804
0.001 B
R3805
150K
C3805
6.3V 220 YK
R3806
100K
FINAL LINE S/SKD
CD3804_1
CU672601
CP3801
A2501WV2-4P
30V or 24V
SOUND GND
FINAL LINE S/SKD
CD3801_1
CU642601
R3803
4.7K
R3804
10K
R3808
4.7K
R3810
10K
SW
Q3801
2SC3052
Q3802
Q3804
Q3805
R3807
0.7 22K
R3812
0.7 22K
L3805
6.8uH SBC4-6R8-452
W821
C3816
B0.1
C3817
50V4.7 YK
R3820
22K
R3821
33K
R3822
15K +-1%
CONTROL
IC3803 BD9300FV-E2
DTC
RT
1/2 REF
CT
INV
FB
VREF
OUT
CTL
NC
SOP
VO
C3819
C3821
430PCH
0.047B
R3823
10K
R3826
33K
R3827
1K
C3822
0.1 B
C3839
0.0056 B
R3824
120K +-1%
R3825
100 +-1%
R3830
1.2K
C3823
35V1000 FM
R3828
1.2K
W925
R3832
10
DRIVER
Q3806
2SC3052
Q3807
2SA1036K
R3833
10
CHOPER
Q3808
2SJ650
W945
L3808
10uH7313N
D3803
SBR100-10J-CBC11
HS3801
763WAAA070
HS6S
SBC4-6R8-452
L3809
6.8uH
C3825_1
25V 820 ZL
C3826_1
25V 820 ZL
FROM/TO REGULATOR
CP3807 (CP3201)
A2001WV2-11P
P.CON+12V
P.CON+9V
P.CON+5V
AT+3.3V
P.CON+3.8V
W944
FINAL LINE S/SKD
CD3807_1
CU2B1501
PCBD20
CMF085

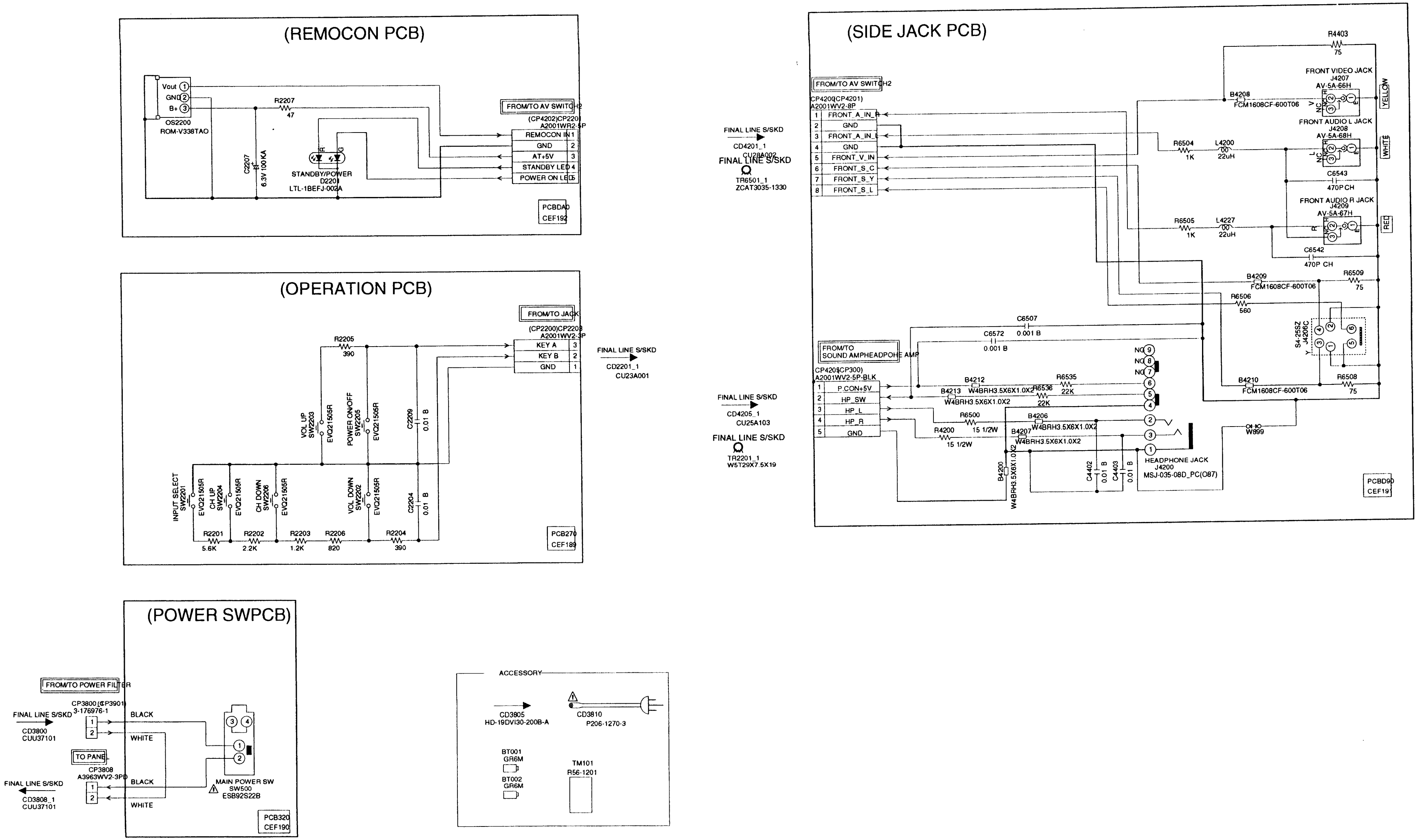
NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

CAUTION: SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY,USE ONES DESCRIBED IN PARTS LIST ONLY

ATTENTION: LES PIECES REPAREES PAR UN ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE NUTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES

OPERATION/SIDE JACK/POWER SWITCH SCHEMATIC DIAGRAM


(REMOCON PCB)
Vout ①
GND ②
B+ ③
OS2200
ROM-V338TAO
R2207
47
C2207
6.3V 100KA
STANDBY/POWER
D2201
LTL-1BEFJ-002A
FROM/TO AV SWITCH2
(CP4202)CP2202
A2001WR2-5P
REMOCON IN 1
GND 2
AT+5V 3
STANDBY LED 4
POWER ON LED 5
PCBDA0
CEF192
(OPERATION PCB)
FROM/TO JACK
(CP2200)CP2203
A2001WV2-3P
KEY A 3
KEY B 2
GND 1
R2205
390
VOL UP
SW2203
EVQ21505R
POWER ON/OFF
SW2205
EVQ21505R
C2209
0.01 B
INPUT SELECT
SW2201
EVQ21505R
CH UP
SW2204
EVQ21505R
CH DOWN
SW2206
EVQ21505R
VOL DOWN
SW2202
EVQ21505R
C2204
0.01 B
R2201
5.6K
R2202
2.2K
R2203
1.2K
R2206
820
R2204
390
PCB270
CEF189
FINAL LINE S/SKD
CD2201_1
CU23A001
(POWER SWPCB)
FROM/TO POWER FILTER
FINAL LINE S/SKD
CD3800
CUU37101
CP3800(CP3901)
3-176976-1
BLACK
WHITE
TO PANEL
CP3808
A3963WV2-3P
FINAL LINE S/SKD
CD3808_1
CUU37101
BLACK
WHITE
MAIN POWER SW
SW500
ESB92S22B
PCB320
CEF190
ACCESSORY
CD3805
HD-19DVI30-200B-A
CD3810
P206-1270-3
BT001
GR6M
BT002
GR6M
TM101
R56-1201
FINAL LINE S/SKD
CD4201_1
CU28A002
FINAL LINE S/SKD
TR6501_1
ZCAT3035-1330
FINAL LINE S/SKD
CD4205_1
CU25A103
FINAL LINE S/SKD
TR2201_1
W5T29X7.5X19
(SIDE JACK PCB)
FROM/TO AV SWITCH2
CP4200(CP4201)
A2001WV2-8P
1 FRONT_A_IN_R
2 GND
3 FRONT_A_IN_L
4 GND
5 FRONT_V_IN
6 FRONT_S_C
7 FRONT_S_Y
8 FRONT_S_L
R4403
75
FRONT VIDEO JACK
J4207
AV-5A-66H
YELLOW
B4208
FCM1608CF-600T06
FRONT AUDIO L JACK
J4208
AV-5A-68H
WHITE
R6504
1K
L4200
22uH
C6543
470P CH
FRONT AUDIO R JACK
J4209
AV-5A-67H
RED
R6505
1K
L4227
22uH
C6542
470P CH
B4209
FCM1608CF-600T06
R6509
75
R6506
560
S4-25SZ
J4206C
C6507
0.001 B
C6572
0.001 B
FROM/TO
SOUND AMPHEADPOHE AMP
CP4205(CP300)
A2001WV2-5P-BLK
1 P.CON+5V
2 HP_SW
3 HP_L
4 HP_R
5 GND
B4212
B4213
W4BRH3.5X6X1.0X2
R6535
22K
R6536
22K
B4210
FCM1608CF-600T06
R6508
75
R6500
15 1/2W
R4200
15 1/2W
B4206
W4BRH3.5X6X1.0X2
B4207
W4BRH3.5X6X1.0X2
B4200
W4BRH3.5X6X1.0X2
C4402
0.01 B
C4403
0.01 B
W899
HEADPHONE JACK
J4200
MSJ-035-08D_PC(O87)
PCBD90
CEF191

NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED
WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST
WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

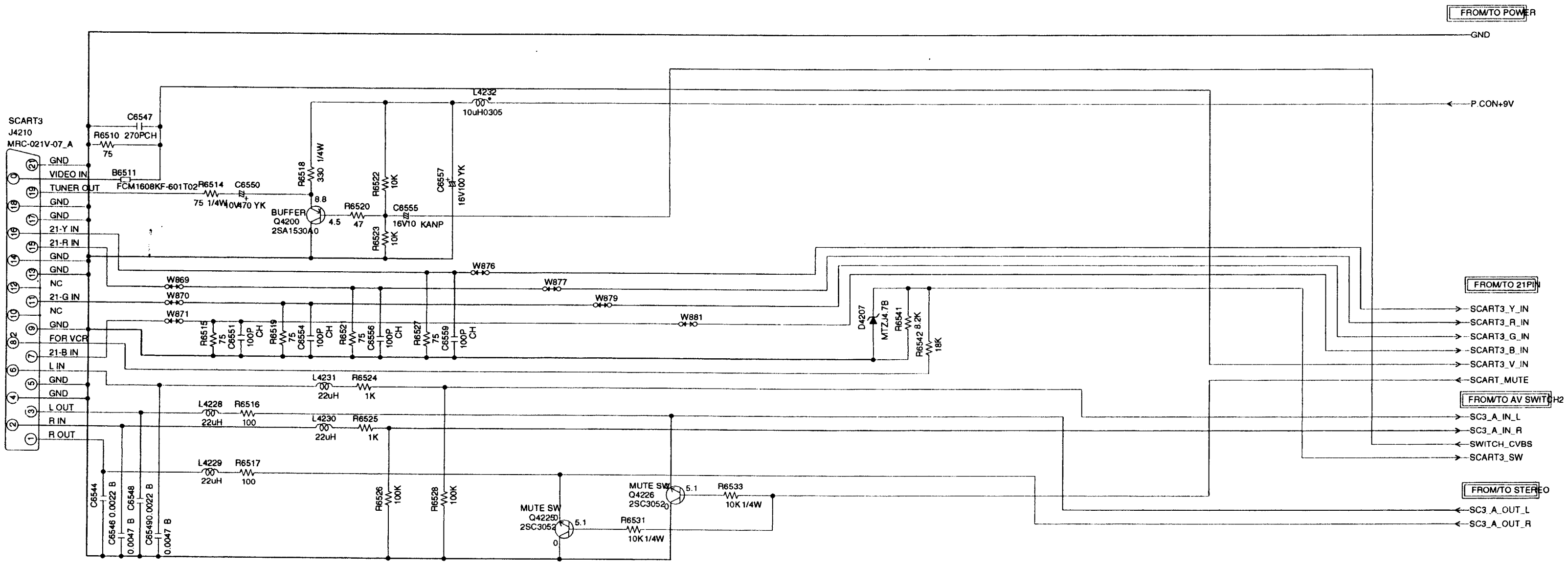
NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

CAUTION: SINCE THESE PARTS MARKED BY ⚠ ARE
CRITICAL FOR SAFETY,USE ONES
DESCRIBED IN PARTS LIST ONLY

ATTENTION: LES PIECES REPAREES PAR ⚠ ETANT
DANGEREUSES AN POINT DE VUE SECURITE
NUTILISER QUE CELLS DECRITES
DANS LA NOMENCLATURE DES PIECES

21PIN(3SCART) SCHEMATIC DIAGRAM

(AV PCB)


SCART3
J4210
MRC-021V-07_A
21 GND
20 VIDEO IN
19 TUNER OUT
18 GND
17 GND
16 21-Y IN
15 21-R IN
14 GND
13 GND
12 NC
11 21-G IN
10 NC
9 GND
8 FOR VCR
7 21-B IN
6 L IN
5 GND
4 GND
3 L OUT
2 R IN
1 R OUT
C6547 270PCH
R6510 75
B6511 FCM1608KF-601T02
R6514 75 1/4W
C6550 10V470 YK
R6518 330 1/4W
BUFFER Q4200 2SA1530A0
8.8
4.5
R6520 47
R6522 10K
R6523 10K
C6555 16V10 KANP
C6557 16V100 YK
L4232 10uH0305
W869
W870
W871
W876
W877
W879
W881
R6515 75
C6551 100P CH
R6519 75
C6554 100P CH
R652 75
C6556 100P CH
R6527 75
C6559 100P CH
D4207 MTZJ4.7B
R6541 8.2K
R6542 18K
L4231 22uH
R6524 1K
L4228 22uH
R6516 100
L4230 22uH
R6525 1K
L4229 22uH
R6517 100
C6544
C6546 0.0022 B
C6548 0.0047 B
C6549 0.0022 B
0.0047 B
R6526 100K
R6528 100K
MUTE SW Q4225 2SC3052
MUTE SW Q4226 2SC3052
5.1
0
R6531 10K 1/4W
R6533 10K 1/4W
FROM/TO POWER
GND
P.CON+9V
FROM/TO 21PIN
SCART3_Y_IN
SCART3_R_IN
SCART3_G_IN
SCART3_B_IN
SCART3_V_IN
SCART_MUTE
FROM/TO AV SWITCH2
SC3_A_IN_L
SC3_A_IN_R
SWITCH_CVBS
SCART3_SW
FROM/TO STEREO
SC3_A_OUT_L
SC3_A_OUT_R

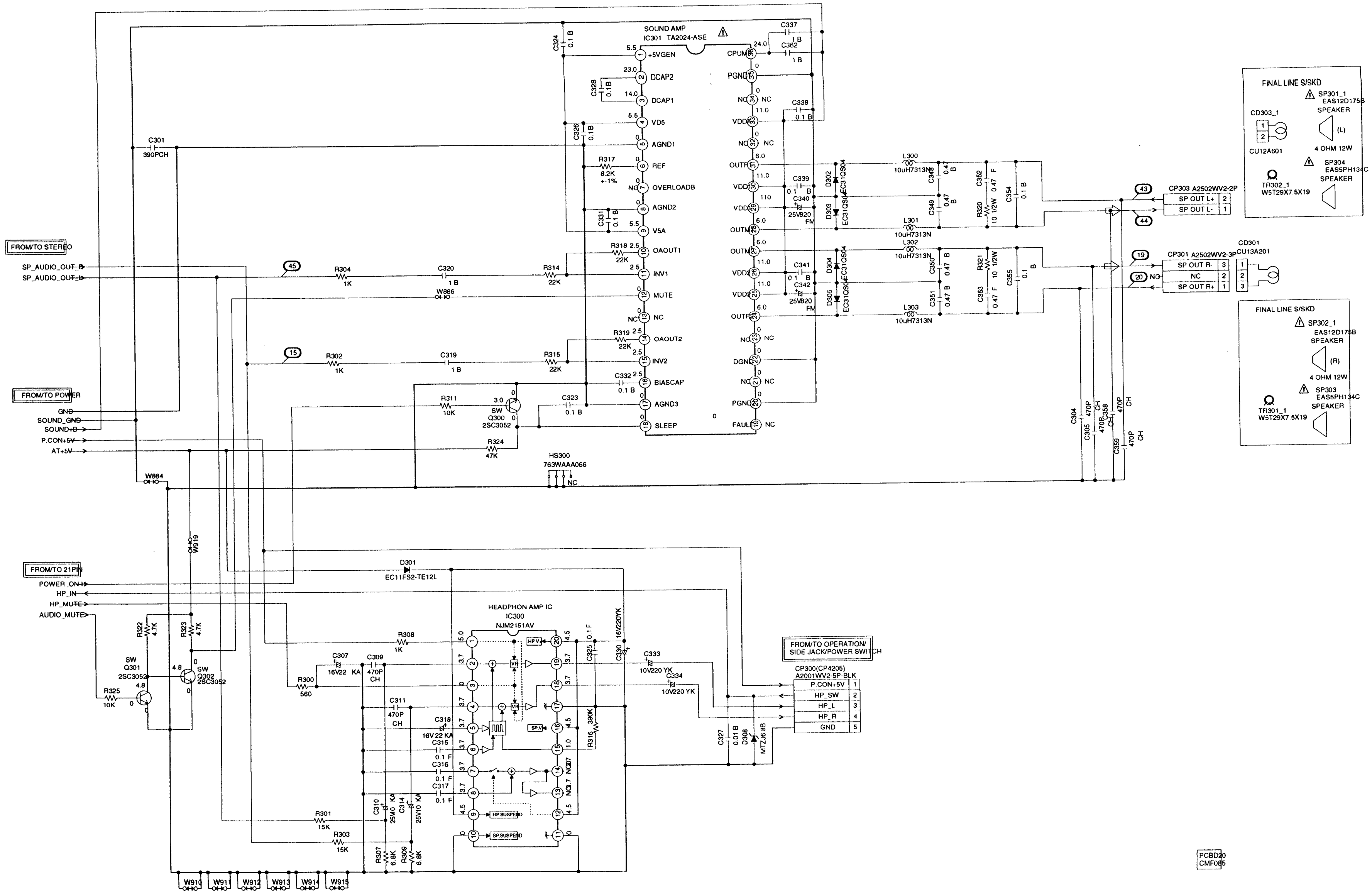
PCBD20
CMF085

NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED
WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST
WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

SOUND AMP/HEADPHONE AMP SCHEMATIC DIAGRAM

(AV PCB)


SOUND AMP
IC301 TA2024-ASE
+5VGEN
DCAP2
DCAP1
VD5
AGND1
REF
OVERLOADB
AGND2
V5A
OAOUT1
INV1
MUTE
NC
OAOUT2
INV2
BIASCAP
AGND3
SLEEP
CPUMP
PGND
VDD
OUTP
OUTM
DGND
FAULT
C337 1 B
C362 1 B
C324 0.1 B
C328 0.1 B
C326 0.1 B
C331 0.1 B
C338 0.1 B
C301 390PCH
R317 8.2K +-1%
R318 22K
R319 22K
C332 0.1 B
C323 0.1 B
C339 0.1 B
C340 25V820 FM
C341 0.1 B
C342 25V820 FM
D302 EC31QS04
D303 EC31QS04
D304 EC31QS04
D305 EC31QS04
L300 10uH7313N
L301 10uH7313N
L302 10uH7313N
L303 10uH7313N
C348 0.47 B
C349 0.47 B
C350 0.47 B
C351 0.47 B
C352 0.47 F
C353 0.47 F
R320 10 1/2W
R321 10 1/2W
C354 0.1 B
C355 0.1 B
C304 470P CH
C305 470P CH
C358 470P CH
C359 470P CH
CP303 A2502WV2-2P
SP OUT L+
SP OUT L-
CP301 A2502WV2-3P
SP OUT R-
NC
SP OUT R+
CD301 CU13A201
CD303_1 CU12A601
FINAL LINE S/SKD
SP301_1 EAS12D175B SPEAKER
(L)
4 OHM 12W
SP304 EAS5PH134C SPEAKER
TR302_1 W5T29X7.5X19
SP302_1 EAS12D175B SPEAKER
(R)
SP303 EAS5PH134C SPEAKER
TR301_1 W5T29X7.5X19
43
44
19
20
45
15
FROM/TO STEREO
SP_AUDIO_OUT_R
SP_AUDIO_OUT_L
R304 1K
C320 1 B
R314 22K
W886
R302 1K
C319 1 B
R315 22K
R311 10K
SW Q300 2SC3052
R324 47K
FROM/TO POWER
GND
SOUND_GND
SOUND+B
P.CON+5V
AT+5V
W884
HS300 763WAAA066
NC
W919
D301 EC11FS2-TE12L
FROM/TO 21PIN
POWER_ON
HP_IN
HP_MUTE
AUDIO_MUTE
R322 4.7K
R323 4.7K
SW Q301 2SC3052
SW Q302 2SC3052
R325 10K
HEADPHON AMP IC
IC300
NJM2151AV
HP V
SP V
HP SUSPEND
SP SUSPEND
R308 1K
C307 16V22 KA
C309 470P CH
R300 560
C311 470P CH
C318 16V22 KA
C315 0.1 F
C316 0.1 F
C317 0.1 F
C310 25M0 KA
C314 25V10 KA
R301 15K
R303 15K
R307 6.8K
R309 6.8K
C325 0.1 F
C330 16V220YK
C333 10V220 YK
C334 10V220 YK
R316 390K
C327 0.01 B
D308 MTZJ6.8B
FROM/TO OPERATION/ SIDE JACK/POWER SWITCH
CP300(CP4205)
A2001WV2-5P-BLK
P.CON+5V
HP_SW
HP_L
HP_R
GND
W910
W911
W912
W913
W914
W915
PCBD20
CMF085

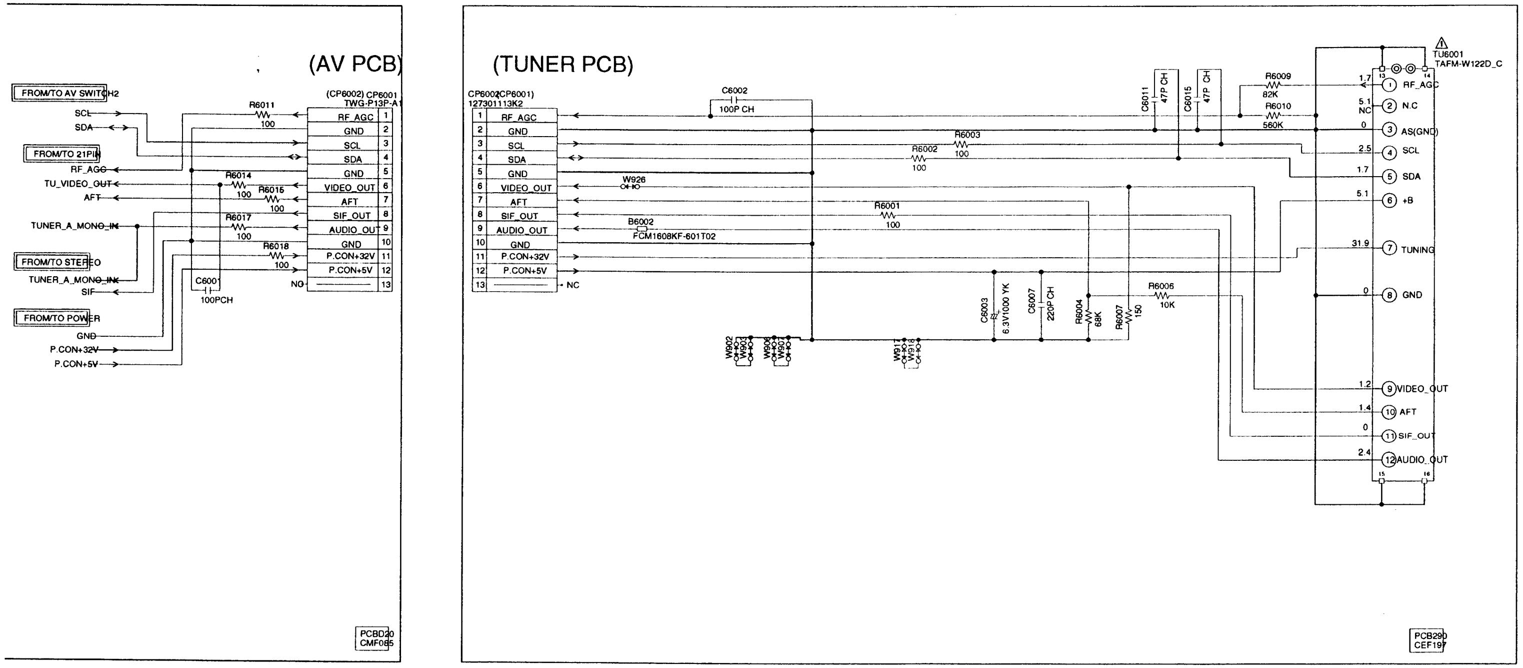
CAUTION: SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY

ATTENTION: LES PIECES REPAREES PAR ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE NUTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES

NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

TUNER SCHEMATIC DIAGRAM


(AV PCB)
(TUNER PCB)
FROM/TO AV SWITCH2
SCL
SDA
FROM/TO 21PIN
RF_AGC
TU_VIDEO_OUT
AFT
TUNER_A_MONO_IN
FROM/TO STEREO
TUNER_A_MONO_INK
SIF
FROM/TO POWER
GND
P.CON+32V
P.CON+5V
R6011 100
R6014 100
R6015 100
R6017 100
R6018 100
C6001 100PCH
(CP6002) CP6001 TWG-P13P-A1
RF_AGC 1
GND 2
SCL 3
SDA 4
GND 5
VIDEO_OUT 6
AFT 7
SIF_OUT 8
AUDIO_OUT 9
GND 10
P.CON+32V 11
P.CON+5V 12
NC 13
PCBD20 CMF085
CP6002(CP6001) 127301113K2
C6002 100P CH
W926
B6002 FCM1608KF-601T02
R6001 100
R6002 100
R6003 100
C6011 47P CH
C6015 47P CH
R6009 82K
R6010 560K
C6003 6.3V1000 YK
C6007 220P CH
R6004 68K
R6007 150
R6006 10K
W902
W903
W906
W907
W917
W918
TU6001 TAFM-W122D_C
1 RF_AGC 1.7
2 N.C 5.1 NC
3 AS(GND) 0
4 SCL 2.5
5 SDA 1.7
6 +B 5.1
7 TUNING 31.9
8 GND 0
9 VIDEO_OUT 1.2
10 AFT 1.4
11 SIF_OUT 0
12 AUDIO_OUT 2.4
13 14 15 16
PCB290 CEF197

NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED
WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST
WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

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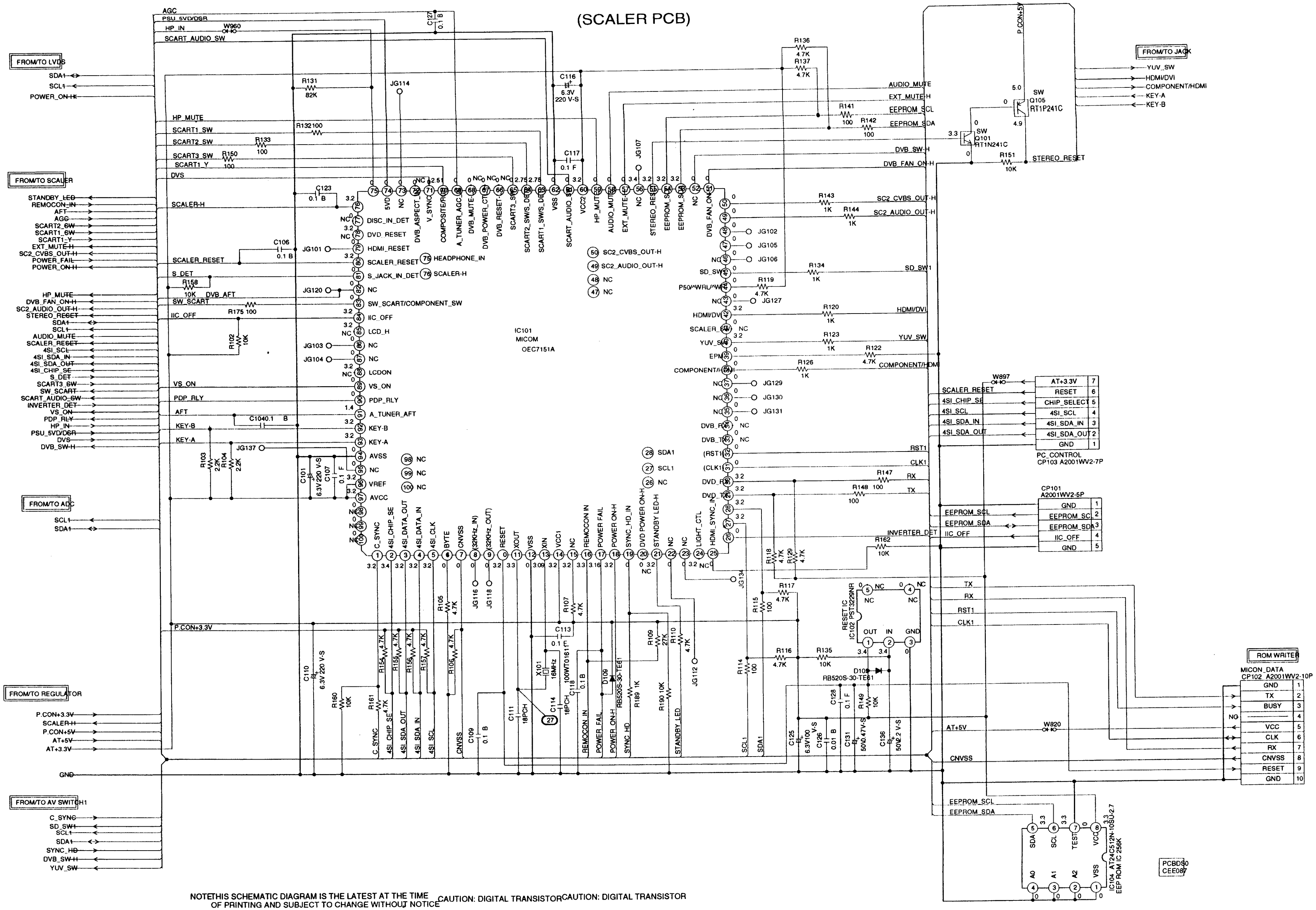
DESCRIBED IN PARTS LIST ONLY

ATTENTION:LES PIECES REPAREES PAR ⚠ ETANT
DANGEREUSES AN POINT DE VUE SECURITE
NUTILISER QUE CELLS DECRITES
DANS LA NOMENCLATURE DES PIECES

MICON SCHEMATIC DIAGRAM

(SCALER PCB)

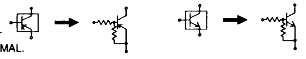


FROM/TO LVDS
SDA1
SCL1
POWER_ON-H
FROM/TO SCALER
STANDBY_LED
REMOCON_IN
AFT
AGC
SCART2_SW
SCART1_SW
SCART1_Y
EXT_MUTE-H
SC2_CVBS_OUT-H
POWER_FAIL
POWER_ON-H
HP_MUTE
DVB_FAN_ON-H
SC2_AUDIO_OUT-H
STEREO_RESET
AUDIO_MUTE
SCALER_RESET
4SI_SCL
4SI_SDA_IN
4SI_SDA_OUT
4SI_CHIP_SE
S_DET
SCART3_SW
SW_SCART
SCART_AUDIO_SW
INVERTER_DET
VS_ON
PDP_RLY
HP_IN
PSU_5VD/DSR
DVS
DVB_SW-H
FROM/TO ADC
FROM/TO REGULATOR
P.CON+3.3V
SCALER-H
P.CON+5V
AT+5V
AT+3.3V
GND
FROM/TO AV SWITCH1
C_SYNC
SD_SW1
SYNC_HD
YUV_SW
FROM/TO JACK
HDMI/DVI
COMPONENT/HDMI
KEY-A
KEY-B
IC101
MICOM
OEC7151A
Q105 RT1P241C
Q101 RT1N241C
STEREO_RESET
R151 10K
P.CON+5V
PC_CONTROL
CP103 A2001WV2-7P
AT+3.3V
RESET
CHIP_SELECT
4SI_SCL
4SI_SDA_IN
4SI_SDA_OUT2
GND
W897
CP101
A2001WV2-5P
GND
EEPROM_SCL
EEPROM_SDA
IIC_OFF
GND
RESET IC
IC102 PST3229NR
ROM WRITER
MICON_DATA
CP102 A2001WV2-10P
GND
TX
BUSY
VCC
CLK
RX
CNVSS
RESET
GND
W820
IC104 AT24C512N-10SU-2.7
EEP ROM IC 256K
SDA
SCL
TEST
VCC
A0
A1
A2
VSS
PCBDS0
CEE087
X101 16MHz
D109 RB520S-30-TE61
D108 RB520S-30-TE61
W960

NOTETHIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

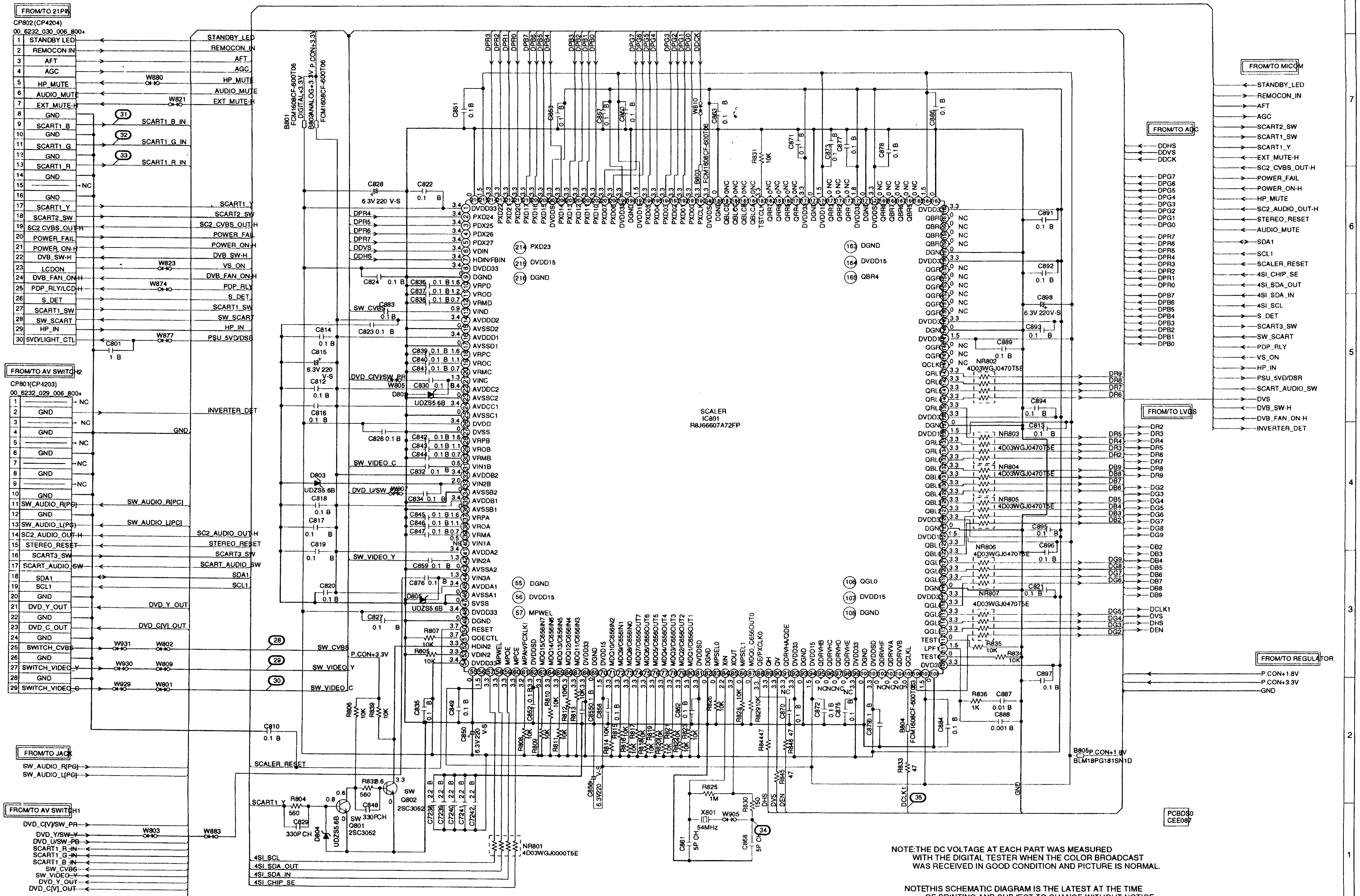
CAUTION: DIGITAL TRANSISTOR CAUTION: DIGITAL TRANSISTOR

NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED
WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST
WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.



SCALER SCHEMATIC DIAGRAM

(SCALER PCB)

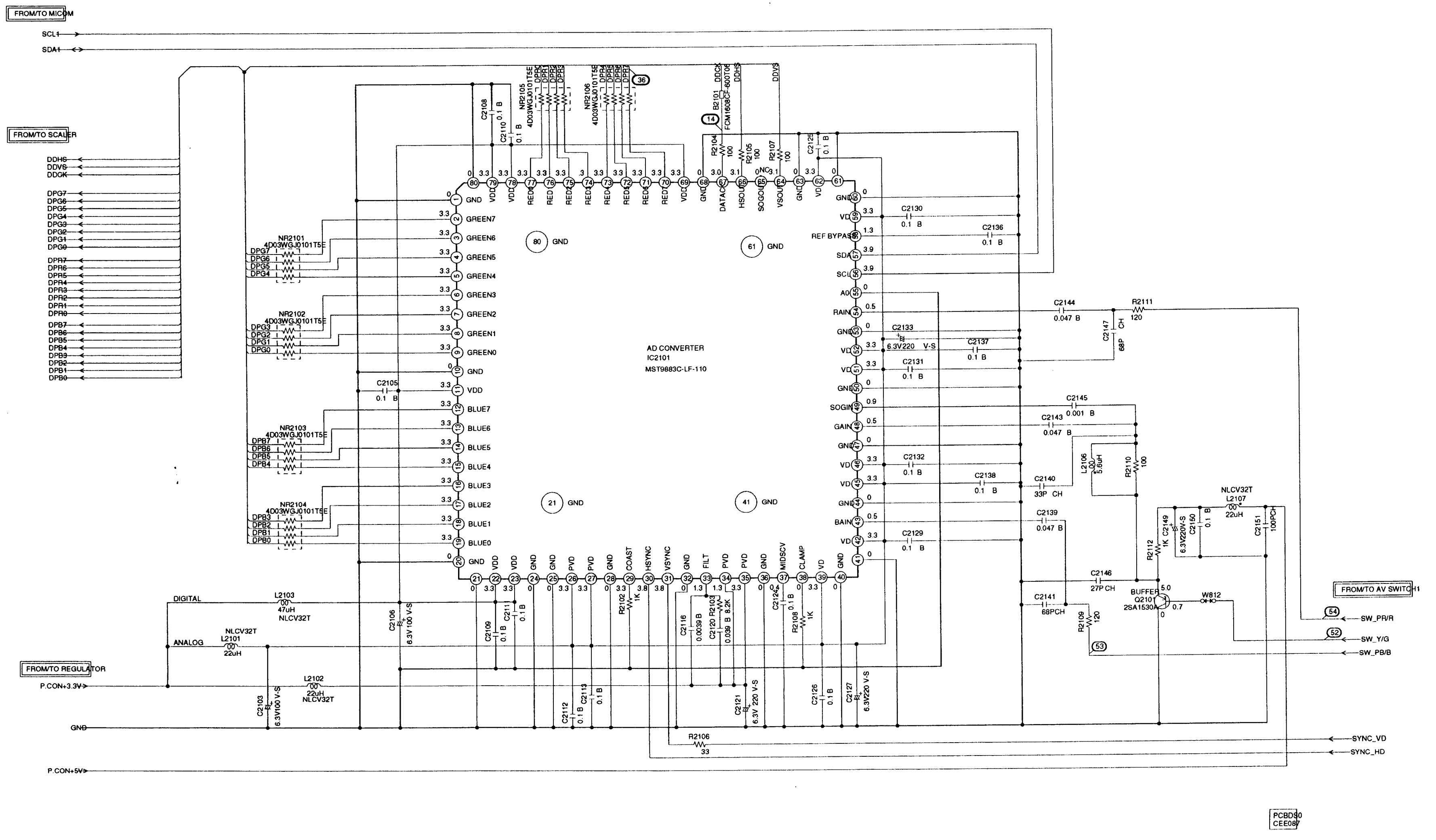

FROM/TO 21PIN
CP802(CP4204)
00_6232_030_006_800+
1 STANDBY LED
2 REMOCON IN
3 AFT
4 AGC
5 HP_MUTE
6 AUDIO_MUTE
7 EXT_MUTE-H
8 GND
9 SCART1_B
10 GND
11 SCART1_G
12 GND
13 SCART1_R
14 GND
15 NC
16 GND
17 SCART1_Y
18 SCART2_SW
19 SC2 CVBS_OUT-H
20 POWER_FAIL
21 POWER_ON-H
22 DVB_SW-H
23 LCDON
24 DVB_FAN_ON-H
25 PDP_RLY/LCD-H
26 S_DET
27 SCART1_SW
28 SW_SCART
29 HP_IN
30 5V/DLIGHT_CTL
W880
W821
W823
W874
W877
C801 1 B
SCART1_B_IN
SCART1_G_IN
SCART1_R_IN
FROM/TO AV SWITCH2
CP801(CP4203)
00_6232_029_006_800+
SW_AUDIO_R(PC)
SW_AUDIO_L(PC)
SC2_AUDIO_OUT-H
STEREO_RESET
SCART3_SW
SCART_AUDIO_SW
SDA1
SCL1
DVD_Y_OUT
DVD_C(V)_OUT
SWITCH_CVBS
SWITCH_VIDEO_Y
SWITCH_VIDEO_C
W931
W930
W929
W802
W809
W801
INVERTER_DET
GND
FROM/TO JACK
SW_AUDIO_R(PC)
SW_AUDIO_L(PC)
FROM/TO AV SWITCH1
DVD_C(V)/SW_PR
DVD_Y/SW_Y
DVD_U/SW_PB
SCART1_R_IN
SCART1_G_IN
SCART1_B_IN
SW_CVBS
SW_VIDEO_Y
DVD_Y_OUT
DVD_C(V)_OUT
W803
W883
SCART1_Y
R804 560
C829 330P CH
D804 UDZS5.6B
Q801 2SC3052
Q802 2SC3052
R832 560
C848 SW 330PCH
SCALER_RESET
4SI_SCL
4SI_SDA_OUT
4SI_SDA_IN
4SI_CHIP_SE
NR801 4D03WGJ0000T5E
C7238 C7239 C7240 C7241 C7242 22 B
B801 FCM1608CF-600T06
DIGITAL+3.3V
B802 ANALOG+3.3V P.CON+3.3V
FCM1608CF-600T06
C828 6.3V 220 V-S
C822 0.1 B
SW_CVBS
SW_VIDEO_C
SW_VIDEO_Y
DVD_C(V)/SW_PR
DVD_U/SW_PB
W805
W807
D802
D803 UDZS5.6B
D805 UDZS5.6B
P.CON+3.3V
R806 10K
R839 10K
R807 10K
R805 10K
SCALER
IC801
R8J66607A72FP
DVDD33
PXD24
PXD25
PXD26
PXD27
VDIN
HDIN/FBIN
DVDD33
DGND
VRPD
VROD
VRMD
VIND
AVDDD2
AVSSD2
AVDDD1
AVSSD1
VRPC
VROC
VRMC
VINC
AVDDC2
AVSSC2
AVDCC1
AVSSC1
DVDD
DVSS
VRPB
VROB
VRMB
VIN1B
AVDDB2
VIN2B
AVSSB2
AVDDB1
AVSSB1
VRPA
VROA
VRMA
VIN1A
AVDDA2
VIN2A
AVSSA2
VIN3A
AVDDA1
AVSSA1
SVSS
DVDD33
DGND
RESET
QOECTL
HDIN2
VDIN2
DVDD33
(214) PXD23
(215) DVDD15
(216) DGND
(163) DGND
(164) DVDD15
(165) QBR4
(55) DGND
(56) DVDD15
(57) MPWEL
(106) QGL0
(107) DVDD15
(108) DGND
MPWEL
MPOE
MPCE
MPAH/PCXLK1
DVDDSD
MDO15/C656IN7
MDO14/C656IN6
MDO13/C656IN5
MDO12/C656IN4
MDO11/C656IN3
DVDD33
DGND
DVDD15
MDO10/C656IN2
MDO9/C656IN1
MDO8/C656IN0
MDO7/C656OUT7
MDO6/C656OUT6
MDO5/C656OUT5
MDO4/C656OUT4
MDO3/C656OUT3
MDO2/C656OUT2
MDO1/C656OUT1
DVDDSD
DGND
MPSEL0
XIN
XOUT
MPSEL1
MDO0_C656OUT0
OE/PXCLKO
OH
OV
ODRVHA/ODE
DVDD33
DGND
DVDD15
ODRVHB
ODRVHC
ODRVHD
ODRVHE
DVDD33
DGND
DVDDSD
ODRVHF
ODRVVA
ODRVVB
OCLKL
QBR
QGR
QRL
QBL
QGL
QCLK
DVDD33
DVDD15
DGND
TEST
LPF
PXCLK
TSTCLK
QBLC
QRR
QGR
PXD
DVDDSD
DDHS
DDVS
DDCK
DPR3 DPR2 DPR1 DPR0
DPB7 DPB6 DPB5 DPB4
DPB3 DPB2 DPB1 DPB0
DPG7 DPG6 DPG5 DPG4
DPG3 DPG2 DPG1 DPG0
DPR4 DPR5 DPR6 DPR7
DDVS
DDHS
W810
B803 FCM1608CF-600T06
R831 10K
B804 FCM1608CF-600T06
R833 47
DCLK1
(35)
(34)
R825 1M
X801 54MHz
W905
R830 150
C861 5P CH
C868 5P CH
DHS
DEN
DVS
R845 47
R846 47
R84447
R836 1K
R835 10K
R834 10K
C887 0.01 B
C888 0.001 B
C884 0.1 B
C897 0.1 B
B805 P.CON+1.8V
BLM18PG181SN1D
GND
NR802 4D03WGJ0470T5E
NR803 4D03WGJ0470T5E
NR804 4D03WGJ0470T5E
NR805 4D03WGJ0470T5E
NR806 4D03WGJ0470T5E
NR807 4D03WGJ0470T5E
C898 6.3V 220V-S
C891 0.1 B
C892 0.1 B
C889 0.1 B
C894 0.1 B
C813 0.1 B
C895 0.1 B
C896 0.1 B
C821 0.1 B
FROM/TO MICOM
STANDBY_LED
REMOCON_IN
AFT
AGC
SCART2_SW
SCART1_SW
SCART1_Y
EXT_MUTE-H
SC2_CVBS_OUT-H
POWER_FAIL
POWER_ON-H
HP_MUTE
SC2_AUDIO_OUT-H
STEREO_RESET
AUDIO_MUTE
SDA1
SCL1
SCALER_RESET
4SI_CHIP_SE
4SI_SDA_OUT
4SI_SDA_IN
4SI_SCL
S_DET
SCART3_SW
SW_SCART
PDP_RLY
VS_ON
HP_IN
PSU_5VD/DSR
SCART_AUDIO_SW
DVS
DVB_SW-H
DVB_FAN_ON-H
INVERTER_DET
FROM/TO ADC
DDHS
DDVS
DDCK
DPG7 DPG6 DPG5 DPG4 DPG3 DPG2 DPG1 DPG0
DPR7 DPR6 DPR5 DPR4 DPR3 DPR2 DPR1 DPR0
DPB7 DPB6 DPB5 DPB4 DPB3 DPB2 DPB1 DPB0
FROM/TO LVDS
DR2 DR3 DR4 DR5 DR6 DR7 DR8 DR9
DG2 DG3 DG4 DG5 DG6 DG7 DG8 DG9
DB2 DB3 DB4 DB5 DB6 DB7 DB8 DB9
DCLK1
DVS
DHS
DEN
FROM/TO REGULATOR
P.CON+1.8V
P.CON+3.3V
GND
PCBDS0
CEE087

NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED
WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST
WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

NOTETHIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

ADC SCHEMATIC DIAGRAM

(SCALER PCB)

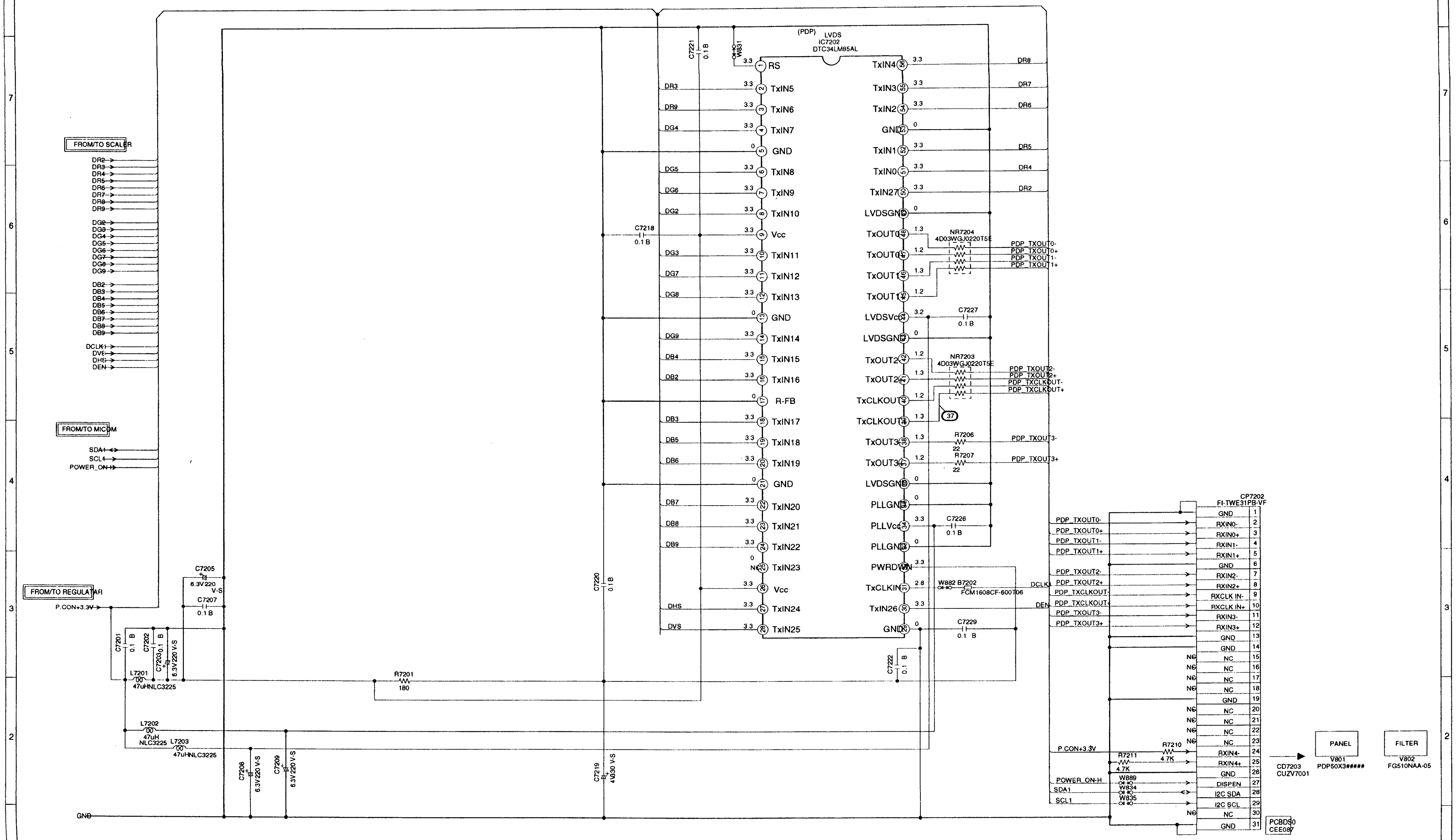

FROM/TO MICOM
SCL
SDA
FROM/TO SCALER
DDHS
DDVS
DDCK
DPG7
DPG6
DPG5
DPG4
DPG3
DPG2
DPG1
DPG0
DPR7
DPR6
DPR5
DPR4
DPR3
DPR2
DPR1
DPR0
DPB7
DPB6
DPB5
DPB4
DPB3
DPB2
DPB1
DPB0
NR2101 4D03WGJ0101T5E
NR2102 4D03WGJ0101T5E
NR2103 4D03WGJ0101T5E
NR2104 4D03WGJ0101T5E
NR2105 4D03WGJ0101T5E
NR2106 4D03WGJ0101T5E
AD CONVERTER
IC2101
MST9883C-LF-110
GND
VDD
GREEN7
GREEN6
GREEN5
GREEN4
GREEN3
GREEN2
GREEN1
GREEN0
BLUE7
BLUE6
BLUE5
BLUE4
BLUE3
BLUE2
BLUE1
BLUE0
PVD
COAST
HSYNC
VSYNC
FILT
MIDSCV
CLAMP
BAIN
GAIN
SOGIN
RAIN
A0
SCL
SDA
REF BYPASS
VD
RED
DATACK
HSOUT
SOGOUT
VSOUT
B2101 FCM1608CF-600T06
R2104 100
R2105 100
R2107 100
C2125 0.1 B
C2108
C2110 0.1 B
C2105 0.1 B
C2106 6.3V 100 V-S
C2109 0.1B
C2111 0.1B
C2112 0.1 B
C2113 0.1 B
R2102 1K
C2116 0.0039 B
C2120 0.039 B
R2103 8.2K
C2121 6.3V 220 V-S
C2124 0.1 B
R2108 1K
C2126 0.1 B
C2127 6.3V220 V-S
C2129 0.1 B
C2130 0.1 B
C2131 0.1 B
C2132 0.1 B
C2133 6.3V220 V-S
C2136 0.1 B
C2137 0.1 B
C2138 0.1 B
C2139 0.047 B
C2140 33P CH
C2141 68PCH
C2143 0.047 B
C2144 0.047 B
C2145 0.001 B
C2146 27P CH
C2147 68P CH
R2111 120
R2110 100
L2106 5.6uH
R2112 1K
C2149 6.3V220V-S
C2150 0.1 B
L2107 22uH NLCV32T
C2151 100PCH
BUFFER Q2101 2SA1530A
W812
R2109 120
FROM/TO AV SWITCH
SW_PR/R
SW_Y/G
SW_PB/B
SYNC_VD
SYNC_HD
R2106 33
DIGITAL
ANALOG
L2103 47uH NLCV32T
L2101 22uH NLCV32T
L2102 22uH NLCV32T
C2103 6.3V100 V-S
FROM/TO REGULATOR
P.CON+3.3V
GND
P.CON+5V
14
36
52
53
54
PCBDS0
CEE087

NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED
WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST
WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

LVDS SCHEMATIC DIAGRAM

(SCALER PCB)

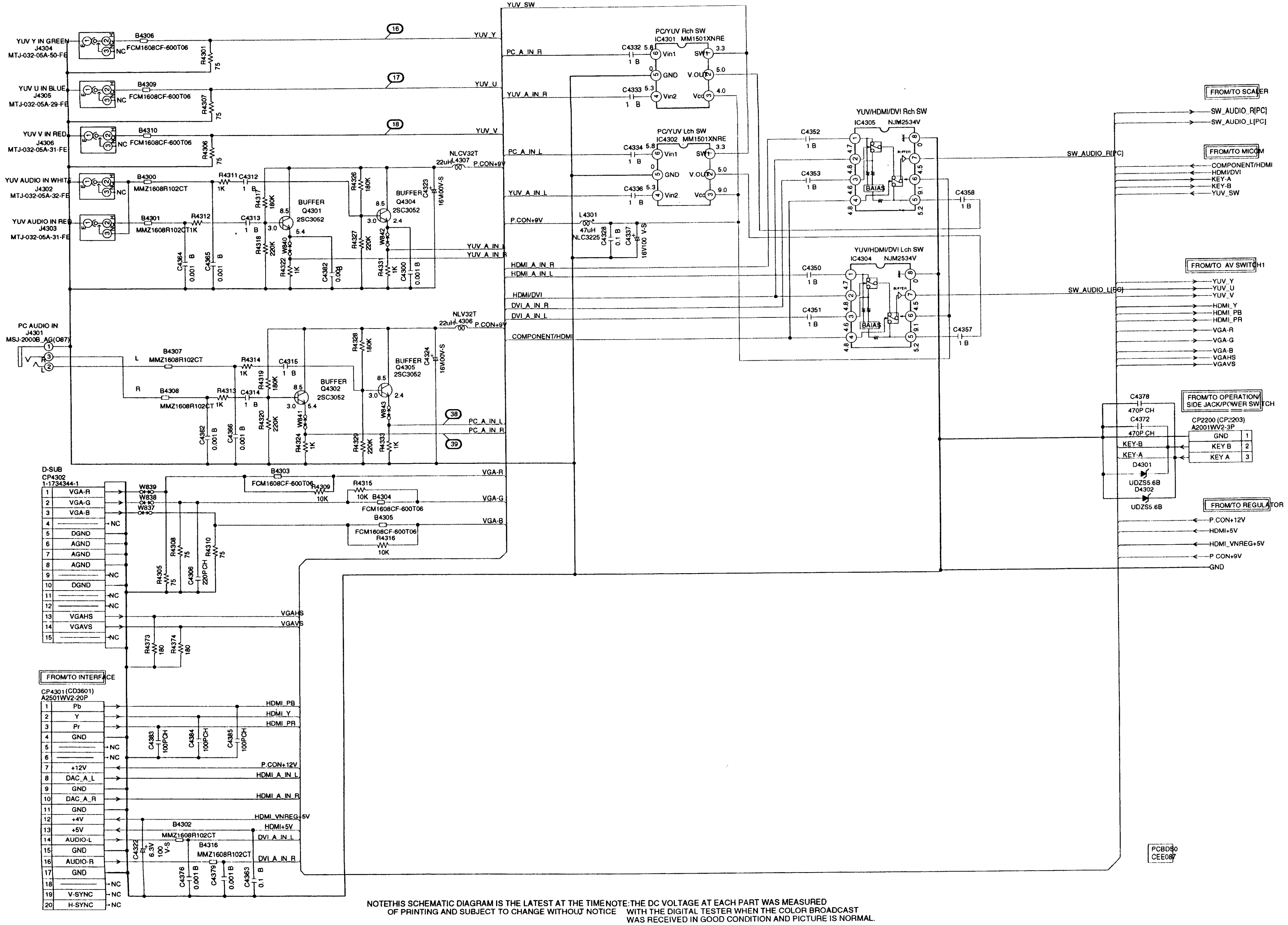


FROM/TO SCALER
DR2 DR3 DR4 DR5 DR6 DR7 DR8 DR9
DG2 DG3 DG4 DG5 DG6 DG7 DG8 DG9
DB2 DB3 DB4 DB5 DB6 DB7 DB8 DB9
DCLK1 DVE DHS DEN
FROM/TO MICOM
SDA1 SCL1 POWER_ON-H
FROM/TO REGULATOR
P.CON+3.3V
GND
(PDP) LVDS IC7202 DTC34LM85AL
RS TxIN5 TxIN6 TxIN7 GND TxIN8 TxIN9 TxIN10 Vcc TxIN11 TxIN12 TxIN13 GND TxIN14 TxIN15 TxIN16 R-FB TxIN17 TxIN18 TxIN19 GND TxIN20 TxIN21 TxIN22 TxIN23 Vcc TxIN24 TxIN25
TxIN4 TxIN3 TxIN2 GND TxIN1 TxIN0 TxIN27 LVDSGND TxOUT0- TxOUT0+ TxOUT1- TxOUT1+ LVDSVcc LVDSGND TxOUT2- TxOUT2+ TxCLKOUT- TxCLKOUT+ TxOUT3- TxOUT3+ LVDSGND PLLGND PLLVcc PLLGND PWRDWN TxCLKIN TxIN26 GND
3.3 1.3 1.2 3.2 2.8 0
NR7204 4D03WGJ0220T5E
NR7203 4D03WGJ0220T5E
R7206 22
R7207 22
37
C7221 0.1 B
W831
C7218 0.1 B
C7227 0.1 B
C7226 0.1 B
C7229 0.1 B
C7222 0.1 B
W882 B7202 FCM1608CF-600T06
C7220 0.1 B
C7219 4V330 V-S
C7205 6.3V220 V-S
C7207 0.1 B
C7201 0.1 B
C7202 0.1 B
C7203 6.3V220 V-S
L7201 47uHNLC3225
L7202 47uH NLC3225
L7203 47uHNLC3225
C7208 6.3V220 V-S
C7209 6.3V220 V-S
R7201 180
PDP_TXOUT0- PDP_TXOUT0+ PDP_TXOUT1- PDP_TXOUT1+ PDP_TXOUT2- PDP_TXOUT2+ PDP_TXCLKOUT- PDP_TXCLKOUT+ PDP_TXOUT3- PDP_TXOUT3+
DCLK1 DEN
P.CON+3.3V
R7210 4.7K
R7211 4.7K
POWER_ON-H SDA1 SCL1
W889 W834 W835
CP7202 FI-TWE31PB-VF
1 GND
2 RXIN0-
3 RXIN0+
4 RXIN1-
5 RXIN1+
6 GND
7 RXIN2-
8 RXIN2+
9 RXCLK IN-
10 RXCLK IN+
11 RXIN3-
12 RXIN3+
13 GND
14 GND
15 NC
16 NC
17 NC
18 NC
19 GND
20 NC
21 NC
22 NC
23 NC
24 RXIN4-
25 RXIN4+
26 GND
27 DISPEN
28 I2C SDA
29 I2C SCL
30 NC
31 GND
NC
CD7203 CUZV7001
PANEL V801 PDP50X3#####
FILTER V802 FG510NAA-05
PCBDS0 CEE087
A B C D E F G H
1 2 3 4 5 6 7 8

NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

NOTETHIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

JACK SCHEMATIC DIAGRAM (SCALER PCB)


YUV_SW
YUV Y IN GREEN
J4304
MTJ-032-05A-50-FE
YUV U IN BLUE
J4305
MTJ-032-05A-29-FE
YUV V IN RED
J4306
MTJ-032-05A-31-FE
YUV AUDIO IN WHITE
J4302
MTJ-032-05A-32-FE
YUV AUDIO IN RED
J4303
MTJ-032-05A-31-FE
NC
B4306
FCM1608CF-600T06
B4309
FCM1608CF-600T06
B4310
FCM1608CF-600T06
R4301
75
R4307
75
R4306
75
16
17
18
YUV_Y
YUV_U
YUV_V
B4300
MMZ1608R102CT
B4301
MMZ1608R102CT
R4311
1K
C4312
1 B
R4312
1K
C4313
1 B
C4364
0.001 B
C4365
0.001 B
R4317
180K
R4318
220K
BUFFER
Q4301
2SC3052
8.5
3.0
5.4
W840
R4322
1K
C4382
0.001B
R4326
180K
R4327
220K
BUFFER
Q4304
2SC3052
2.4
W842
R4331
1K
C4300
0.001 B
C4323
16V100V-S
NLCV32T
22uH L4307
P.CON+9V
YUV_A_IN_L
YUV_A_IN_R
PC AUDIO IN
J4301
MSJ-2000B_AG(O87)
L
R
B4307
MMZ1608R102CT
B4308
MMZ1608R102CT
R4314
1K
C4315
1 B
R4313
1K
C4314
1 B
C4362
0.001 B
C4366
0.001 B
R4319
180K
R4320
220K
BUFFER
Q4302
2SC3052
W841
R4324
1K
R4328
180K
R4329
220K
BUFFER
Q4305
2SC3052
W843
R4333
1K
C4324
16V100V-S
NLV32T
22uH L4306
38
39
PC_A_IN_L
PC_A_IN_R
D-SUB
CP4302
1-1734344-1
VGA-R
VGA-G
VGA-B
DGND
AGND
VGAHS
VGAVS
W839
W838
W837
B4303
FCM1608CF-600T06
R4309
10K
R4315
10K
B4304
FCM1608CF-600T06
B4305
FCM1608CF-600T06
R4316
10K
R4305
75
R4308
75
C4306
220PCH
R4310
75
R4373
180
R4374
180
FROM/TO INTERFACE
CP4301(CD3601)
A2501WV2-20P
Pb
Y
Pr
GND
+12V
DAC_A_L
DAC_A_R
+4V
+5V
AUDIO-L
AUDIO-R
V-SYNC
H-SYNC
C4383
100PCH
C4384
100PCH
C4385
100PCH
HDMI_PB
HDMI_Y
HDMI_PR
P.CON+12V
HDMI_A_IN_L
HDMI_A_IN_R
HDMI_VNREG+5V
HDMI+5V
DVI_A_IN_L
DVI_A_IN_R
B4302
MMZ1608R102CT
B4316
MMZ1608R102CT
C4322
6.3V
100
V-S
C4376
0.001 B
C4379
0.001 B
C4363
0.1 B
PC_A_IN_R
YUV_A_IN_R
PC_A_IN_L
P.CON+9V
L4301
47uH
NLC3225
C4328
0.1 B
C4337
16V100 V-S
HDMI/DVI
COMPONENT/HDMI
PC/YUV Rch SW
IC4301 MM1501XNRE
PC/YUV Lch SW
IC4302 MM1501XNRE
Vin1
GND
Vin2
SW1
V.OUT
Vcc
C4332
C4333
C4334
C4336
1 B
5.8
5.3
3.3
5.0
4.0
9.0
0
YUV/HDMI/DVI Rch SW
IC4305 NJM2534V
YUV/HDMI/DVI Lch SW
IC4304 NJM2534V
BUFFER
BAIAS
C4352
1 B
C4353
1 B
C4358
1 B
C4350
1 B
C4351
1 B
C4357
1 B
4.7
4.8
4.6
4.5
9.1
5.2
SW_AUDIO_R[PC]
SW_AUDIO_L[PC]
FROM/TO SCALER
FROM/TO MICOM
COMPONENT/HDMI
HDMI/DVI
KEY-A
KEY-B
YUV_SW
FROM/TO AV SWITCH1
YUV_Y
YUV_U
YUV_V
HDMI_Y
HDMI_PB
HDMI_PR
VGA-R
VGA-G
VGA-B
VGAHS
VGAVS
FROM/TO OPERATION/
SIDE JACK/POWER SWITCH
C4378
470P CH
C4372
470P CH
KEY-B
KEY-A
D4301
UDZS5.6B
D4302
UDZS5.6B
CP2200 (CP2203)
A2001WV2-3P
GND
KEY B
KEY A
FROM/TO REGULATOR
P.CON+12V
HDMI+5V
HDMI_VNREG+5V
P CON+9V
GND
PCBD50
CEE087

1	VGA-R
2	VGA-G
3	VGA-B
4	
5	DGND
6	AGND
7	AGND
8	AGND
9	
10	DGND
11	
12	
13	VGAHS
14	VGAVS
15	

1	Pb
2	Y
3	Pr
4	GND
5	
6	
7	+12V
8	DAC_A_L
9	GND
10	DAC_A_R
11	GND
12	+4V
13	+5V
14	AUDIO-L
15	GND
16	AUDIO-R
17	GND
18	
19	V-SYNC
20	H-SYNC

GND	1
KEY B	2
KEY A	3

NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

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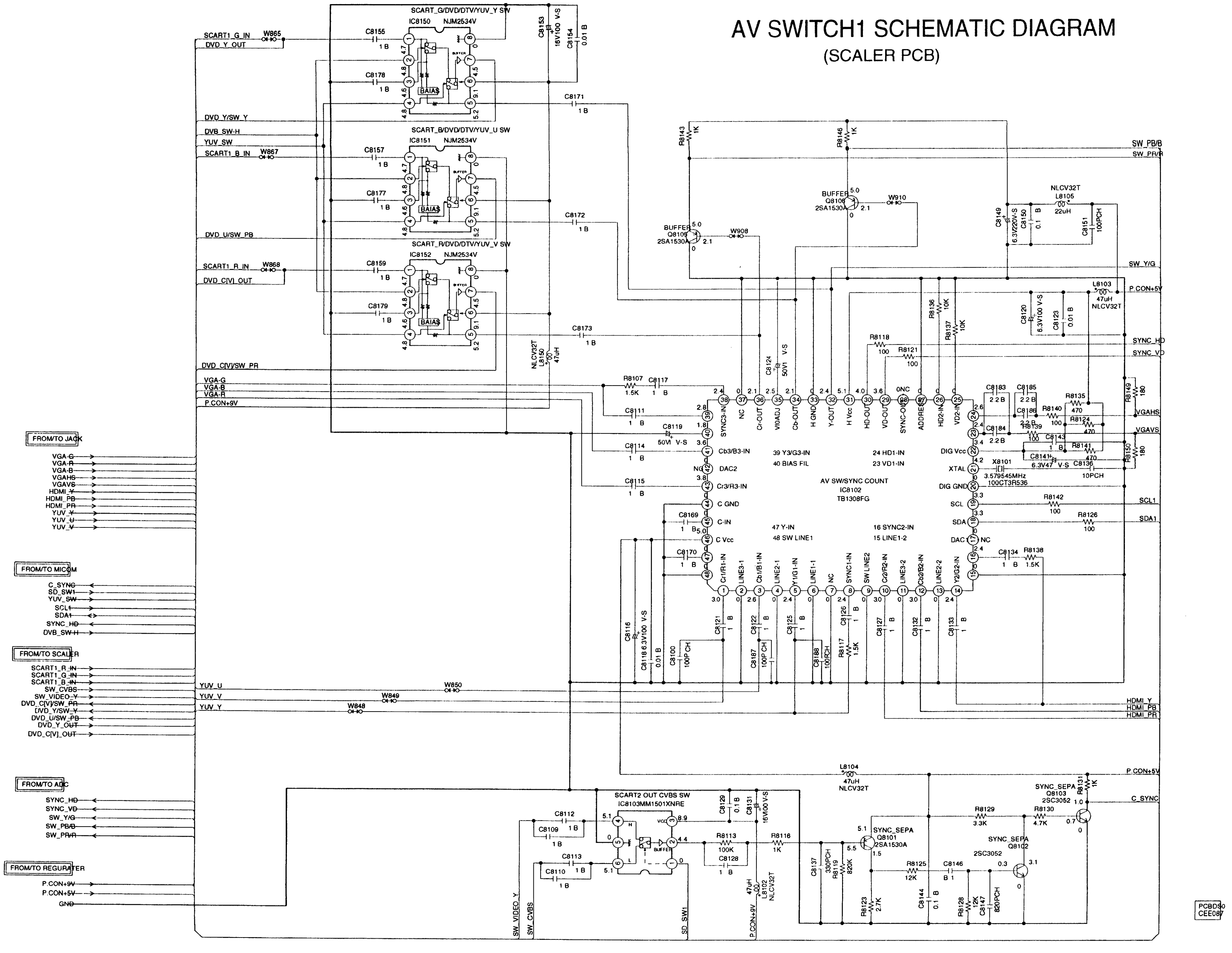
AV SWITCH1 SCHEMATIC DIAGRAM

(SCALER PCB)



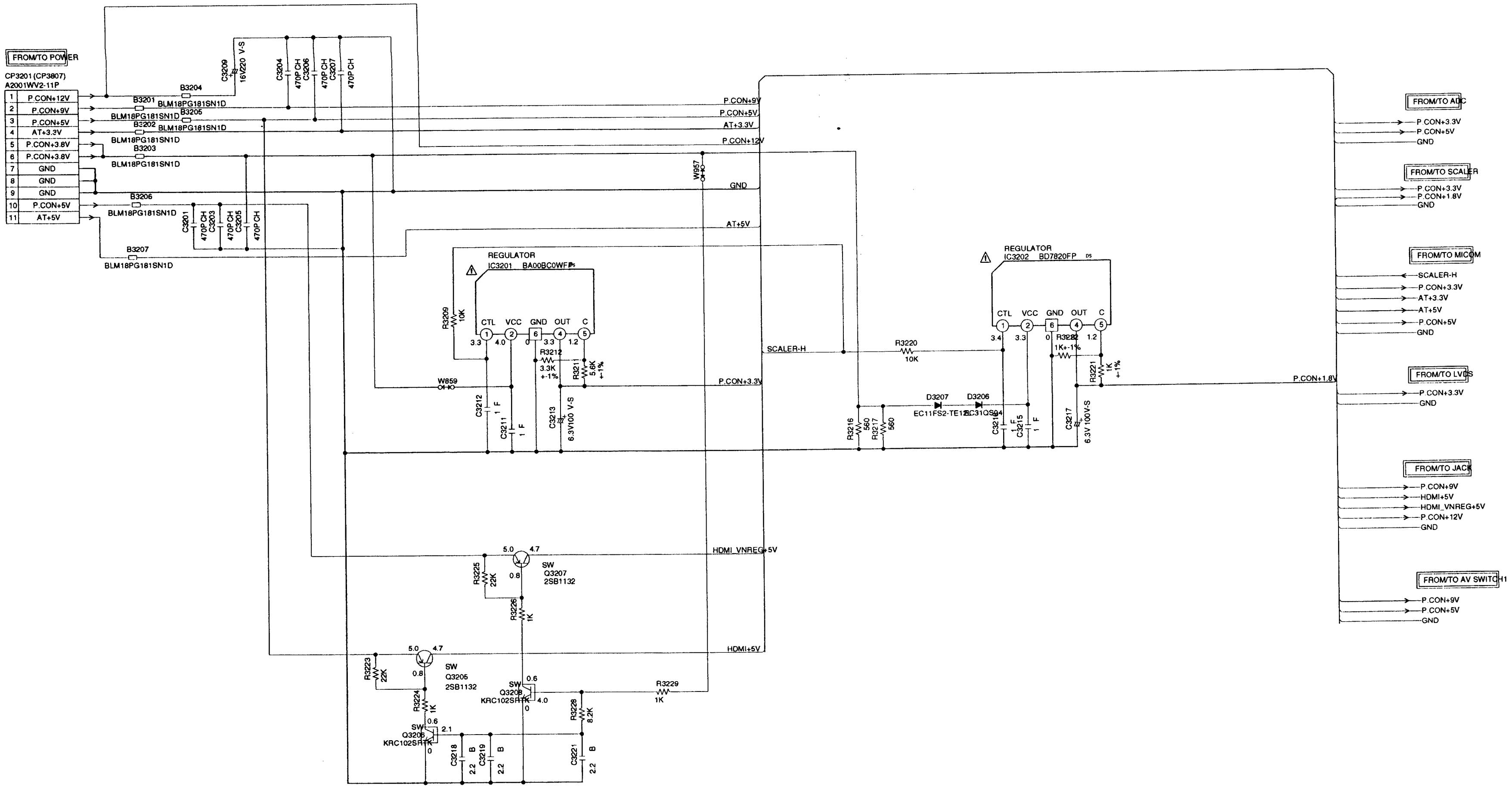
SCART_G/DVD/DTV/YUV_Y SW
IC8150 NJM2534V
SCART_B/DVD/DTV/YUV_U SW
IC8151 NJM2534V
SCART_R/DVD/DTV/YUV_V SW
IC8152 NJM2534V
BAIAS
BUFFER
SCART1_G_IN
DVD_Y_OUT
DVD_Y/SW_Y
DVB_SW-H
YUV_SW
SCART1_B_IN
DVD_U/SW_PB
SCART1_R_IN
DVD_C(V)_OUT
DVD_C(V)/SW_PR
VGA-G
VGA-B
VGA-R
P.CON+9V
W865
W867
W868
W908
W910
W848
W849
W850
BUFFER Q8105 2SA1530A
BUFFER Q8106 2SA1530A
R8143 1K
R8145 1K
SW_PB/B
SW_PR/R
SW_Y/G
P.CON+5V
SYNC_HD
SYNC_VD
VGAHS
VGAVS
SCL1
SDA1
HDMI_Y
HDMI_PB
HDMI_PR
AV SW/SYNC COUNT
IC8102
TB1308FG
X8101 3.579545MHz 100CT3R536
FROM/TO JACK
VGA-G
VGA-R
VGA-B
VGAHS
VGAVS
HDMI_Y
HDMI_PB
HDMI_PR
YUV_Y
YUV_U
YUV_V
FROM/TO MICOM
C_SYNC
SD_SW1
YUV_SW
SCL1
SDA1
SYNC_HD
DVB_SW-H
FROM/TO SCALER
SCART1_R_IN
SCART1_G_IN
SCART1_B_IN
SW_CVBS
SW_VIDEO_Y
DVD_C(V)/SW_PR
DVD_Y/SW_Y
DVD_U/SW_PB
DVD_Y_OUT
DVD_C(V)_OUT
FROM/TO ADC
SYNC_HD
SYNC_VD
SW_Y/G
SW_PB/B
SW_PR/R
FROM/TO REGURATER
P.CON+9V
P.CON+5V
GND
YUV_U
YUV_V
YUV_Y
SCART2 OUT CVBS SW
IC8103MM1501XNRE
SW_VIDEO_Y
SW_CVBS
SD_SW1
L8104 47uH NLCV32T
L8102 47uH NLCV32T
L8103 47uH NLCV32T
L8105 22uH NLCV32T
L8150 47uH NLCV32T
SYNC_SEPA Q8101 2SA1530A
SYNC_SEPA Q8102 2SC3052
SYNC_SEPA Q8103 2SC3052
C_SYNC
PCBD90
CEE087

NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED
WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST
WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

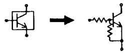
NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

REGULATOR SCHEMATIC DIAGRAM

(SCALER PCB)


FROM/TO POWER
CP3201 (CP3807)
A2001WV2-11P
1 P.CON+12V
2 P.CON+9V
3 P.CON+5V
4 AT+3.3V
5 P.CON+3.8V
6 P.CON+3.8V
7 GND
8 GND
9 GND
10 P.CON+5V
11 AT+5V
B3201 BLM18PG181SN1D
B3202 BLM18PG181SN1D
B3203 BLM18PG181SN1D
B3204 BLM18PG181SN1D
B3205 BLM18PG181SN1D
B3206 BLM18PG181SN1D
B3207 BLM18PG181SN1D
C3209 16V220 V-S
C3204 470P CH
C3206 470P CH
C3207 470P CH
C3201 470P CH
C3203 470P CH
C3205 470P CH
P.CON+9V
P.CON+5V
AT+3.3V
P.CON+12V
GND
AT+5V
W957
REGULATOR
IC3201 BA00BC0WFP
CTL VCC GND OUT C
R3209 10K
R3212 3.3K +-1%
R3211 5.6K +-1%
W859
C3212 1 F
C3211 1 F
C3213 6.3V100 V-S
P.CON+3.3V
SCALER-H
R3220 10K
REGULATOR
IC3202 BD7820FP
R3222 1K+-1%
R3221 1K +-1%
D3207 EC11FS2-TE12
D3206 EC31QS04
R3216 560
R3217 560
C3214 1 F
C3215 1 F
C3217 6.3V 100V-S
P.CON+1.8V
HDMI_VNREG+5V
HDMI+5V
SW Q3207 2SB1132
R3225 22K
R3226 1K
SW Q3205 2SB1132
R3223 22K
R3224 1K
SW Q3208 KRC102SRTK
SW Q3206 KRC102SRTK
R3228 8.2K
R3229 1K
C3218 2.2 B
C3219 2.2 B
C3221 2.2 B
FROM/TO ADC
P.CON+3.3V
P.CON+5V
GND
FROM/TO SCALER
P.CON+3.3V
P.CON+1.8V
GND
FROM/TO MICOM
SCALER-H
P.CON+3.3V
AT+3.3V
AT+5V
P.CON+5V
GND
FROM/TO LVDS
P.CON+3.3V
GND
FROM/TO JACK
P.CON+9V
HDMI+5V
HDMI_VNREG+5V
P.CON+12V
GND
FROM/TO AV SWITCH1
P.CON+9V
P.CON+5V
GND
PCBDS0
CEE087

CAUTION: DIGITAL TRANSISTOR



NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

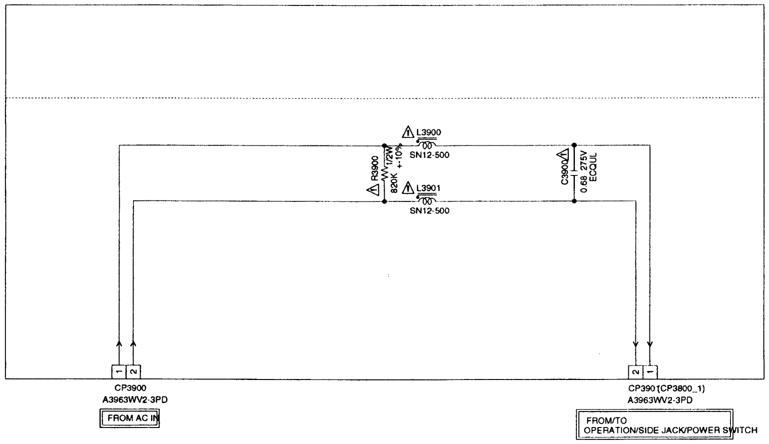
NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

CAUTION: SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY,USE ONES DESCRIBED IN PARTS LIST ONLY

ATTENTION: LES PIECES REPAREES PAR UN ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES

POWER FILTER SCHEMATIC DIAGRAM

(FILTER PCB)


L3900
SN12-500
R3900
1/2W
+-10%
820K
L3901
SN12-500
C3900
0.68 275V
ECQUL
1
2
CP3900
A3963WV2-3PD
FROM AC IN
2
1
CP3901(CP3800_1)
A3963WV2-3PD
FROM/TO
OPERATION/SIDE JACK/POWER SWITCH

PCBD00
CEE124

NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

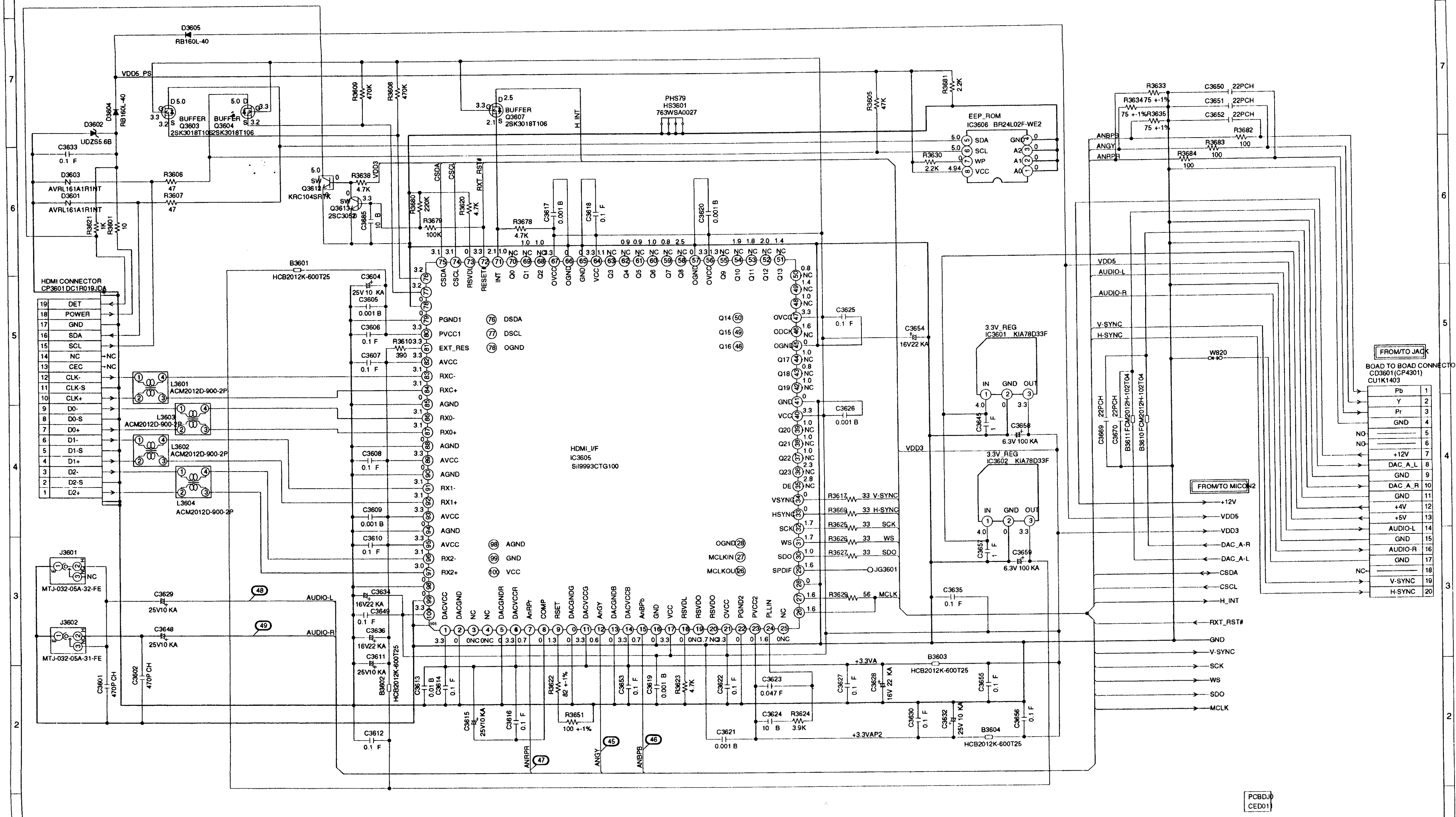
NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED
WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST
WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

CAUTION: SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY,USE ONES DESCRIBED IN PARTS LIST ONLY

ATTENTION: LES PIECES REPAREES PAR ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES

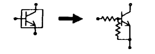
INTERFACE SCHEMATIC DIAGRAM

(HD-MI PCB)



HDMI CONNECTOR
CP3601 DC1R019JDA
DET
POWER
GND
SDA
SCL
NC
CEC
CLK-
CLK-S
CLK+
D0-
D0-S
D0+
D1-
D1-S
D1+
D2-
D2-S
D2+
D3605
RB160L-40
D3604
RB160L-40
D3602
UDZS5.6B
D3603
AVRL161A1R1NT
D3601
AVRL161A1R1NT
C3633
0.1 F
BUFFER
Q3603
2SK3018T106
BUFFER
Q3604
2SK3018T106
BUFFER
Q3607
2SK3018T106
VDD5_PS
Q3612
KRC104SRTK
Q3613
2SC3052
VDD3
L3601
ACM2012D-900-2P
L3602
ACM2012D-900-2P
L3603
ACM2012D-900-2P
L3604
ACM2012D-900-2P
J3601
MTJ-032-05A-32-FE
J3602
MTJ-032-05A-31-FE
AUDIO-L
AUDIO-R
C3601
470P CH
C3602
470P CH
B3601
HCB2012K-600T25
B3602
HCB2012K-600T25
B3603
HCB2012K-600T25
B3604
HCB2012K-600T25
HDMI_I/F
IC3605
SiI9993CTG100
PHS79
HS3601
763WSA0027
EEP_ROM
IC3606 BR24L02F-WE2
3.3V_REG
IC3601 KIA78D33F
3.3V_REG
IC3602 KIA78D33F
+3.3VA
+3.3VAP2
FROM/TO JACK
BOAD TO BOAD CONNECTOR
CD3601(CP4301)
CU1K1403
Pb
Y
Pr
GND
+12V
DAC_A_L
DAC_A_R
+4V
+5V
AUDIO-L
AUDIO-R
V-SYNC
H-SYNC
FROM/TO MICON2
+12V
VDD5
VDD3
DAC_A-R
DAC_A-L
CSDA
CSCL
H_INT
RXT_RST#
GND
V-SYNC
SCK
WS
SDO
MCLK
ANBPB
ANGY
ANRPR
W820
B3610 FCM2012H-102T04
B3611 FCM2012H-102T04
JG3601
PCBDJ0
CED01

CAUTION: DIGITAL TRANSISTOR

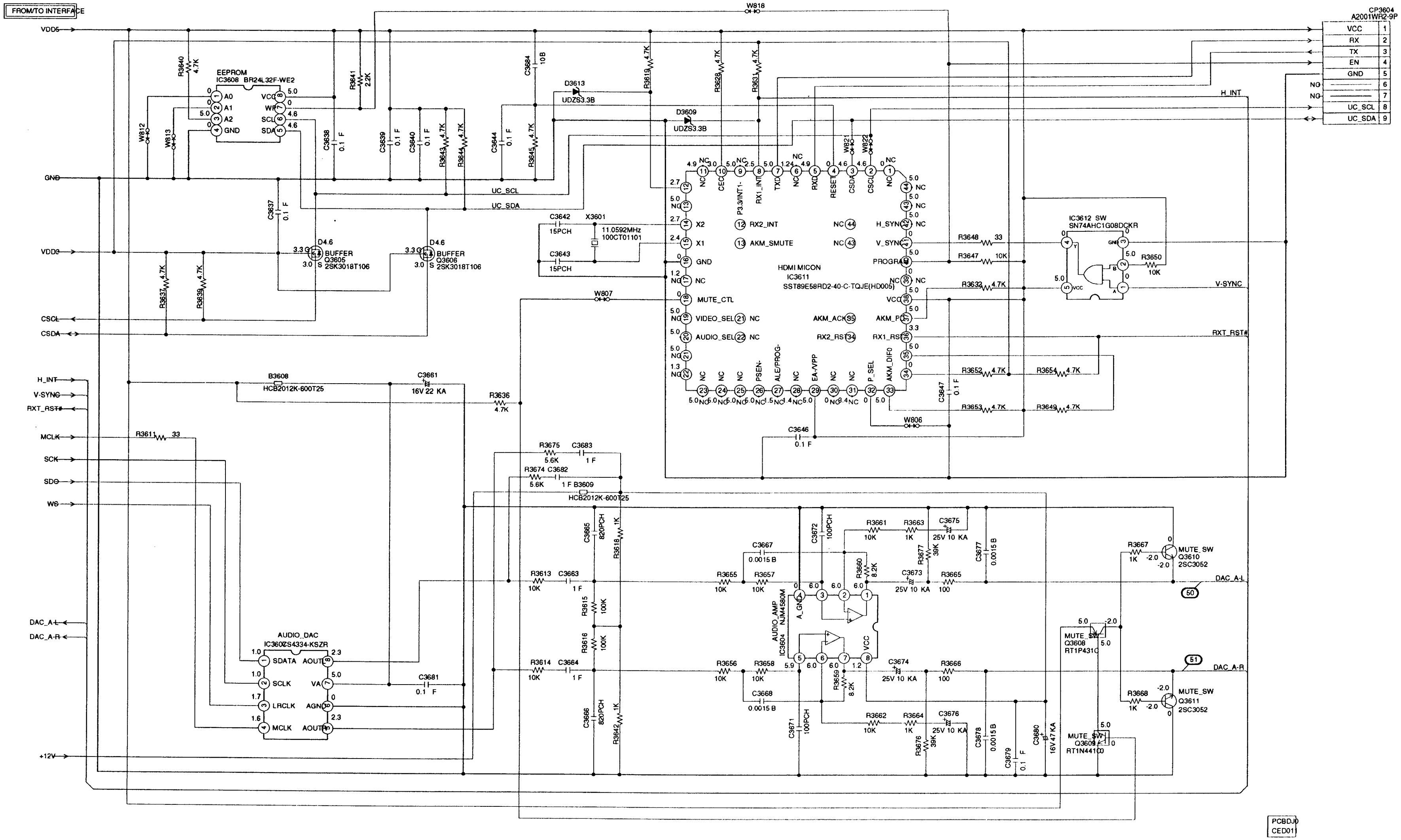


NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

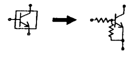
NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED
WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST
WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

MICON2 SCHEMATIC DIAGRAM

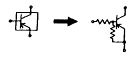
(HD-MI PCB)


FROM/TO INTERFACE
VDD5
GND
VDD3
CSCL
CSDA
H_INT
V-SYNC
RXT_RST#
MCLK
SCK
SDO
WS
DAC_A-L
DAC_A-R
+12V
CP3604
A2001WR2-9P
VCC 1
RX 2
TX 3
EN 4
GND 5
NG 6
NG 7
UC_SCL 8
UC_SDA 9
EEPROM
IC3608 BR24L32F-WE2
A0
A1
A2
GND
VCC
WP
SCL
SDA
W812
W813
W818
W821
W822
W806
W807
R3640 4.7K
R3641 2.2K
C3638 0.1 F
C3639 0.1 F
C3640 0.1 F
R3643 4.7K
R3644 4.7K
C3644 0.1 F
R3645 4.7K
C3684 10B
D3613 UDZS3.3B
D3609 UDZS3.3B
R3619 4.7K
R3628 4.7K
R3631 4.7K
UC_SCL
UC_SDA
C3637 0.1 F
D4.6
BUFFER
Q3605
2SK3018T106
Q3606
R3637 4.7K
R3639 4.7K
C3642 15PCH
C3643 15PCH
X3601
11.0592MHz
100CT01101
HDMI MICON
IC3611
SST89E58RD2-40-C-TQJE(HD005)
CEC
P3.3/INT1-
RX1_INT
TXD
RXD
RESET
CSDA
CSCL
X2
X1
MUTE_CTL
VIDEO_SEL
AUDIO_SEL
RX2_INT
AKM_SMUTE
PSEN-
ALE/PROG-
EA-/VPP
P_SEL
AKM_DIF0
H_SYNC
V_SYNC
PROGRAM
AKM_PD
AKM_ACK
RX1_RST
RX2_RST
NC
R3648 33
R3647 10K
R3632 4.7K
R3652 4.7K
R3654 4.7K
R3653 4.7K
R3649 4.7K
C3647 0.1 F
C3646 0.1 F
IC3612 SW
SN74AHC1G08DCKR
R3650 10K
B3608
HCB2012K-600T25
C3661 16V 22 KA
R3636 4.7K
R3611 33
AUDIO_DAC
IC3602 CS4334-KSZR
SDATA
SCLK
LRCLK
MCLK
AOUTL
VA
AGND
AOUTR
C3681 0.1 F
R3675 5.6K
C3683 1 F
R3674 5.6K
C3682 1 F
B3609
HCB2012K-600T25
C3665 820PCH
R3618 1K
R3613 10K
C3663 1 F
R3615 100K
R3616 100K
R3614 10K
C3664 1 F
C3666 820PCH
R3642 1K
AUDIO_AMP
IC3604 NJM4580M
A_GND
VCC
R3655 10K
R3657 10K
C3667 0.0015 B
C3672 100PCH
R3660 8.2K
R3661 10K
R3663 1K
C3675 25V 10 KA
R3677 39K
C3673 25V 10 KA
R3665 100
C3677 0.0015 B
R3656 10K
R3658 10K
C3668 0.0015 B
R3659 8.2K
C3671 100PCH
C3674 25V 10 KA
R3666 100
R3662 10K
R3664 1K
C3676 25V 10 KA
R3676 39K
C3678 0.0015 B
C3679 0.1 F
C3680 16V 47 KA
R3667 1K
MUTE_SW
Q3610
2SC3052
R3668 1K
Q3611
MUTE_SW
Q3608
RT1P431C
Q3609
RT1N441C
(50)
(51)
PCBDJ0
CED011

CAUTION: DIGITAL TRANSISTOR



CAUTION: DIGITAL TRANSISTOR



NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

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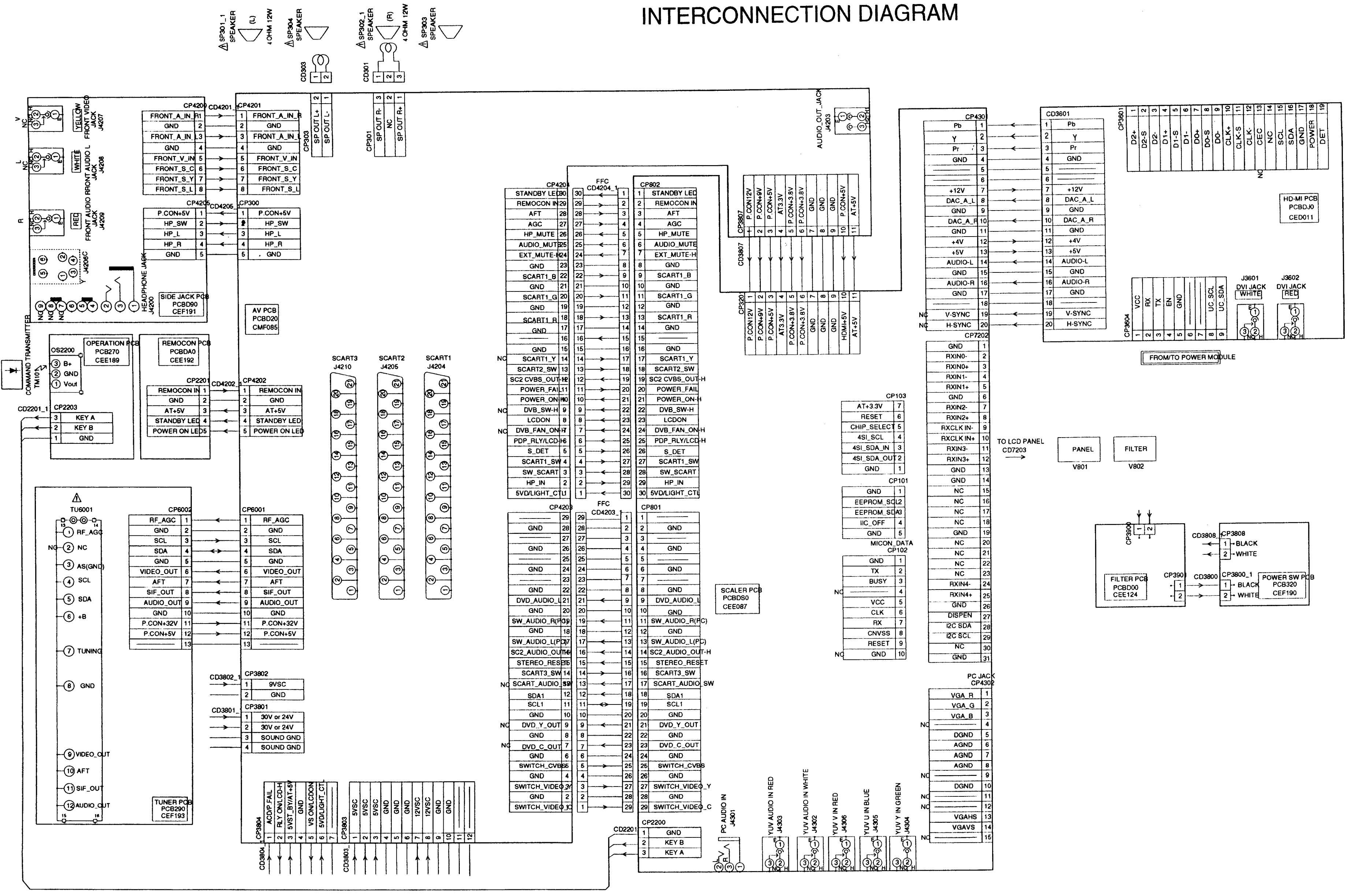
INTERCONNECTION DIAGRAM



SP301_1 SPEAKER (L) 4 OHM 12W
SP304 SPEAKER
SP302_1 SPEAKER (R) 4 OHM 12W
SP303 SPEAKER
CD303
CD301
CP303
SP OUT L+
SP OUT L-
CP301
SP OUT R-
NC
SP OUT R+
FRONT VIDEO JACK J4207
YELLOW
FRONT AUDIO L JACK J4208
WHITE
FRONT AUDIO R JACK J4209
RED
J4206C
HEADPHONE JACK J4200
SIDE JACK PCB PCBD90 CEF191
CP4200
CD4201
CP4201
FRONT_A_IN_R
GND
FRONT_A_IN_L
FRONT_V_IN
FRONT_S_C
FRONT_S_Y
FRONT_S_L
CP4205
CD4205
CP300
P.CON+5V
HP_SW
HP_L
HP_R
AV PCB PCBD20 CMF085
COMMAND TRANSMITTER TM101
OS2200
B+
Vout
OPERATION PCB PCB270 CEE189
REMOCON PCB PCBDA0 CEE192
CP2201
CD4202
CP4202
REMOCON IN
AT+5V
STANDBY LED
POWER ON LED
CD2201_1
CP2203
KEY A
KEY B
TU6001
RF_AGC
NC
AS(GND)
SCL
SDA
+B
TUNING
VIDEO_OUT
AFT
SIF_OUT
AUDIO_OUT
TUNER PCB PCB290 CEF193
CP6002
CP6001
P.CON+32V
CD3802_1
CP3802
9VSC
CD3801_1
CP3801
30V or 24V
SOUND GND
CD3804
CP3804
ACD/P.FAIL
RLY ON/LCD-H
5VST_BY/AT+5V
VS ON/LCDON
5VD/LIGHT_CTL
CD3803
CP3803
5VSC
12VSC
SCART3 J4210
SCART2 J4205
SCART1 J4204
CP4204
FFC CD4204_1
CP802
STANDBY LED
AGC
HP_MUTE
AUDIO_MUTE
EXT_MUTE-H
SCART1_B
SCART1_G
SCART1_R
SCART1_Y
SCART2_SW
SC2 CVBS_OUT-H
POWER_FAIL
POWER_ON-H
DVB_SW-H
LCDON
DVB_FAN_ON-H
PDP_RLY/LCD-H
S_DET
SCART1_SW
SW_SCART
HP_IN
5VD/LIGHT_CTL
CP4203
FFC CD4203_1
CP801
DVD_AUDIO_L
SW_AUDIO_R(PC)
SW_AUDIO_L(PC)
SC2_AUDIO_OUT-H
STEREO_RESET
SCART3_SW
SCART_AUDIO_SW
SDA1
SCL1
DVD_Y_OUT
DVD_C_OUT
SWITCH_CVBS
SWITCH_VIDEO_Y
SWITCH_VIDEO_C
CD2201
CP2200
AUDIO_OUT_JACK J4203
CP3807
CD3807
CP320
P.CON12V
P.CON+9V
P.CON+5V
AT3.3V
P.CON+3.8V
HDMI+5V
AT+5V
SCALER PCB PCBDS0 CEE087
CP103
AT+3.3V
RESET
CHIP_SELECT
4SI_SCL
4SI_SDA_IN
4SI_SDA_OUT
CP101
EEPROM_SCL
EEPROM_SDA
IIC_OFF
MICON_DATA CP102
TX
BUSY
VCC
CLK
RX
CNVSS
PC AUDIO IN J4301
YUV AUDIO IN RED J4303
YUV AUDIO IN WHITE J4302
YUV V IN RED J4306
YUV U IN BLUE J4305
YUV Y IN GREEN J4304
CP430
Pb
Y
Pr
+12V
DAC_A_L
DAC_A_R
+4V
+5V
AUDIO-L
AUDIO-R
V-SYNC
H-SYNC
CP7202
RXIN0-
RXIN0+
RXIN1-
RXIN1+
RXIN2-
RXIN2+
RXCLK IN-
RXCLK IN+
RXIN3-
RXIN3+
RXIN4-
RXIN4+
DISPEN
I2C SDA
I2C SCL
PC JACK CP4302
VGA_R
VGA_G
VGA_B
DGND
AGND
VGAHS
VGAVS
TO LCD PANEL CD7203
PANEL V801
FILTER V802
CD3601
CP3601
D2+
D2-S
D2-
D1+
D1-S
D1-
D0+
D0-S
D0-
CLK+
CLK-S
CLK-
CEC
DET
POWER
HD-MI PCB PCBDJ0 CED011
CP3604
EN
UC_SCL
UC_SDA
J3601 DVI JACK WHITE
J3602 DVI JACK RED
FROM/TO POWER MODULE
CP3900
FILTER PCB PCBD00 CEE124
CP3901
CD3800
CD3808
CP3808
CP3800_1
BLACK
WHITE
POWER SW PCB PCB320 CEF190

NOTE THIS INTERCONNECTION DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

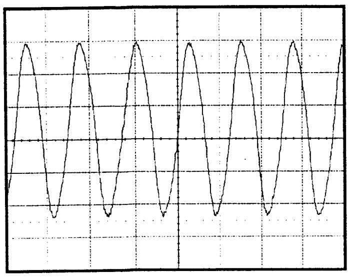
CAUTION SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY,USE ONES DESCRIBED IN PARTS LIST ONLY

ATTENTION LES PIECES REPAREES PAR UN ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES

WAVEFORMS

MICON

①



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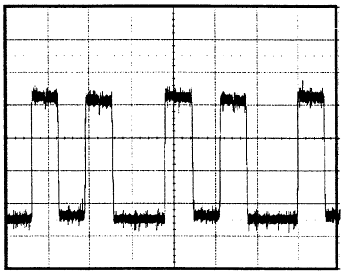

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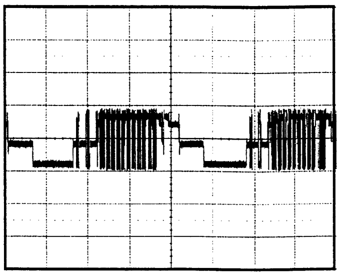
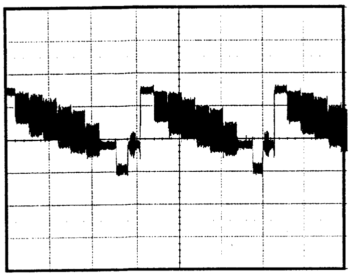


SCALER

②



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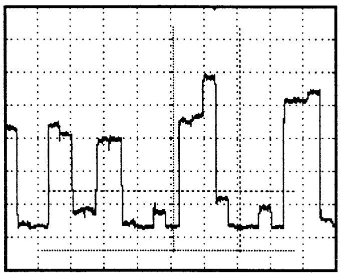

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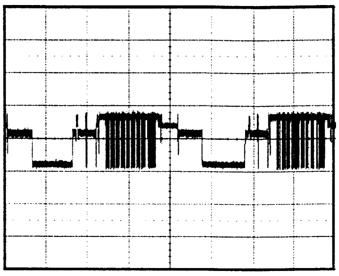

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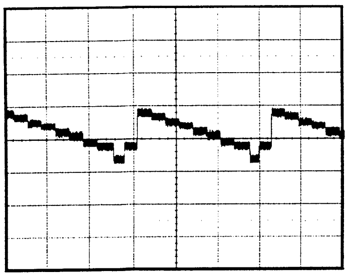

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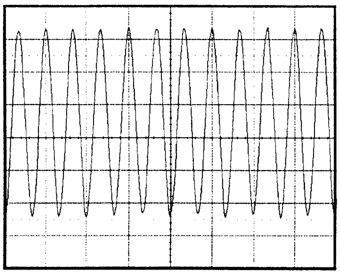
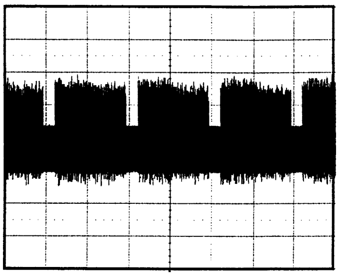


LVDS

⑮



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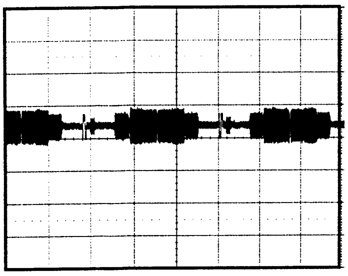

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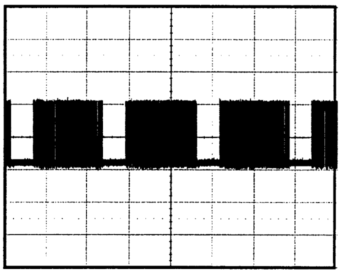
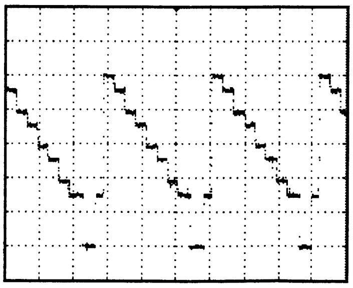


JACK

⑯



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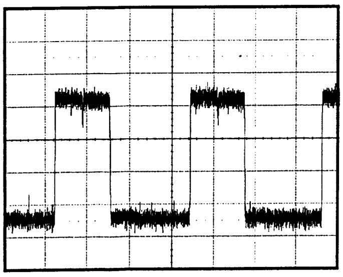
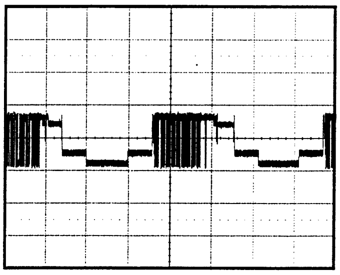


ADC

⑩



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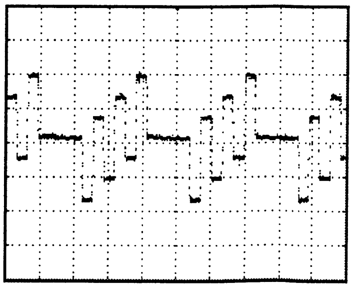
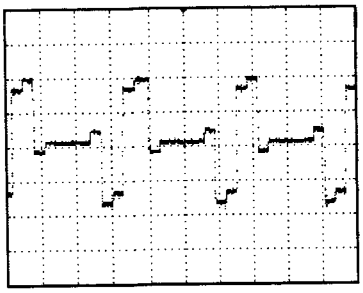


NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

WAVEFORMS

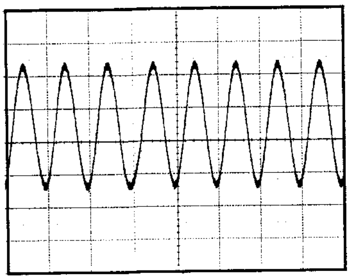
10µs
200mV

⑱



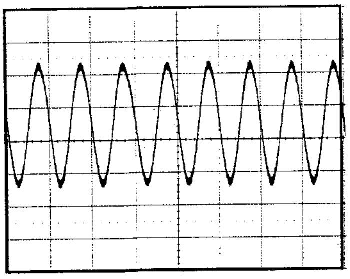
1.0ms
1.0V

⑲



1.0ms
1.0V

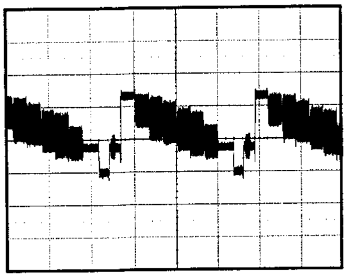
⑳



21PIN (SCART3)

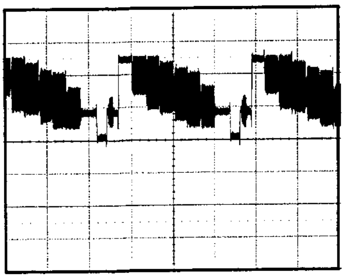
20µs
500mV

㉓



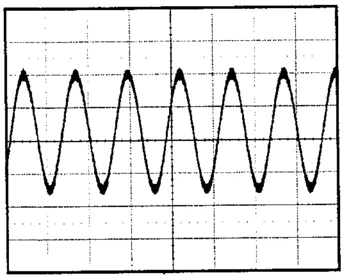
20µs
1.0V

㉔



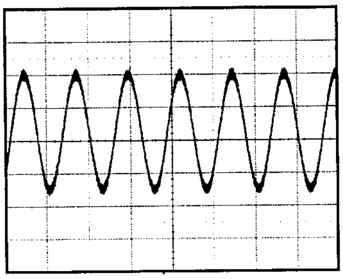
2.0ms
500mV

㉕



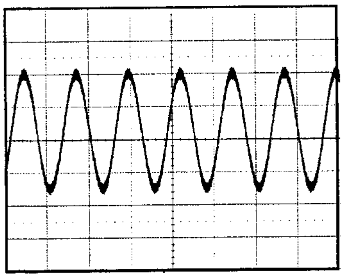
2.0ms
500mV

㉖



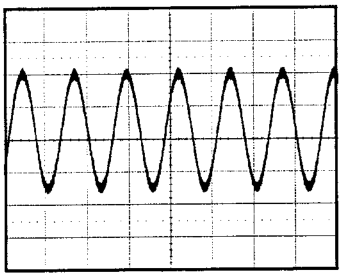
2.0ms
500mV

㉗



2.0ms
500mV

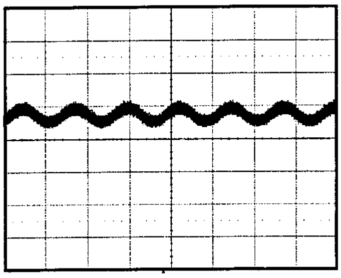
㉘



STEREO

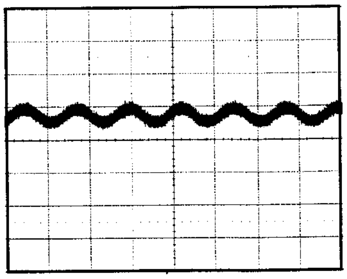
2.0ms
2.0V

㉙



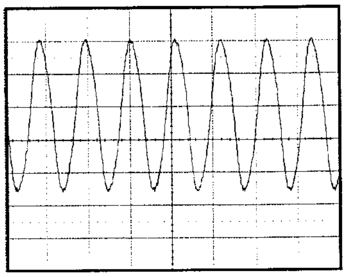
2.0ms
2.0V

㉚



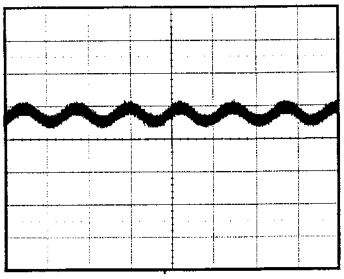
50ns
500mV

㉛



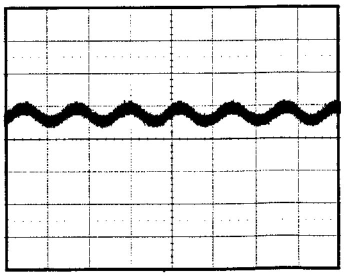
2.0ms
2.0V

㉜



2.0ms
2.0V

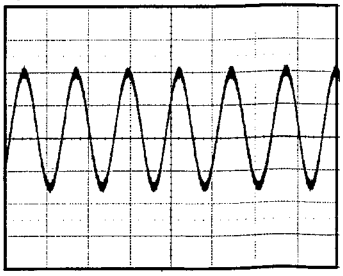
㉝



21PIN(SCART3)

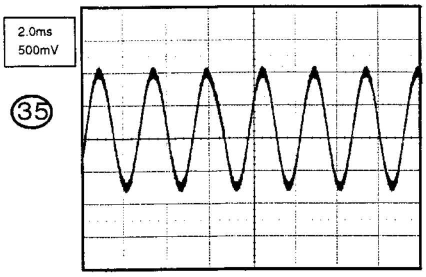
2.0ms
500mV

㉞



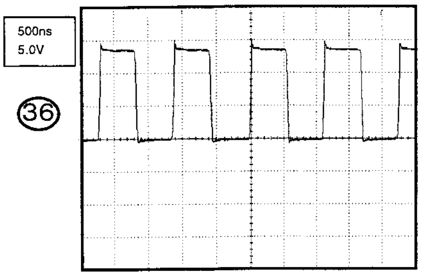
NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

WAVEFORMS



㉟

SOUND AMP



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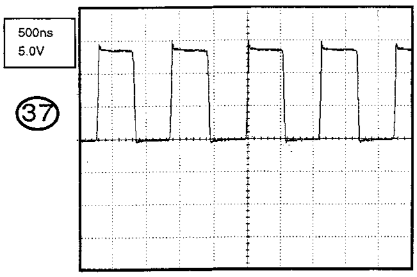
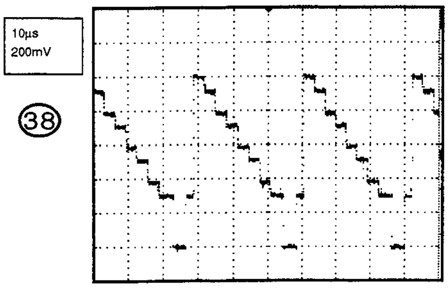


㊲

INTERFACE



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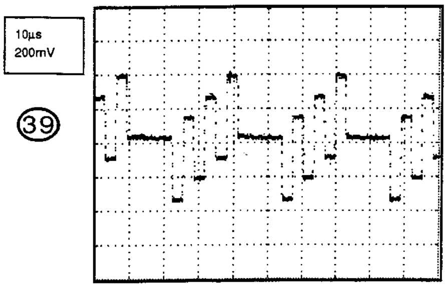

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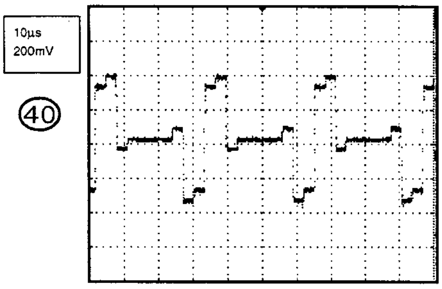
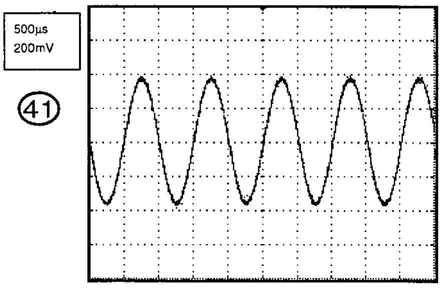


㊵



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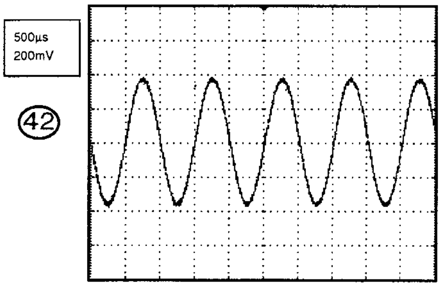
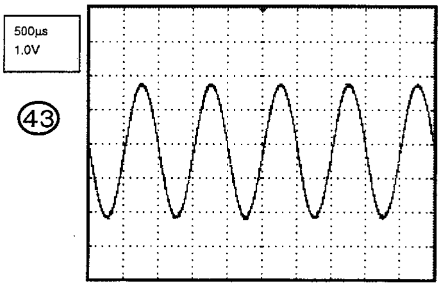
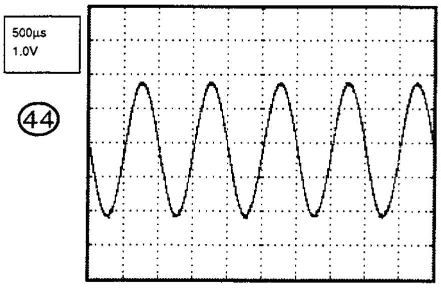


㊷

MICON2



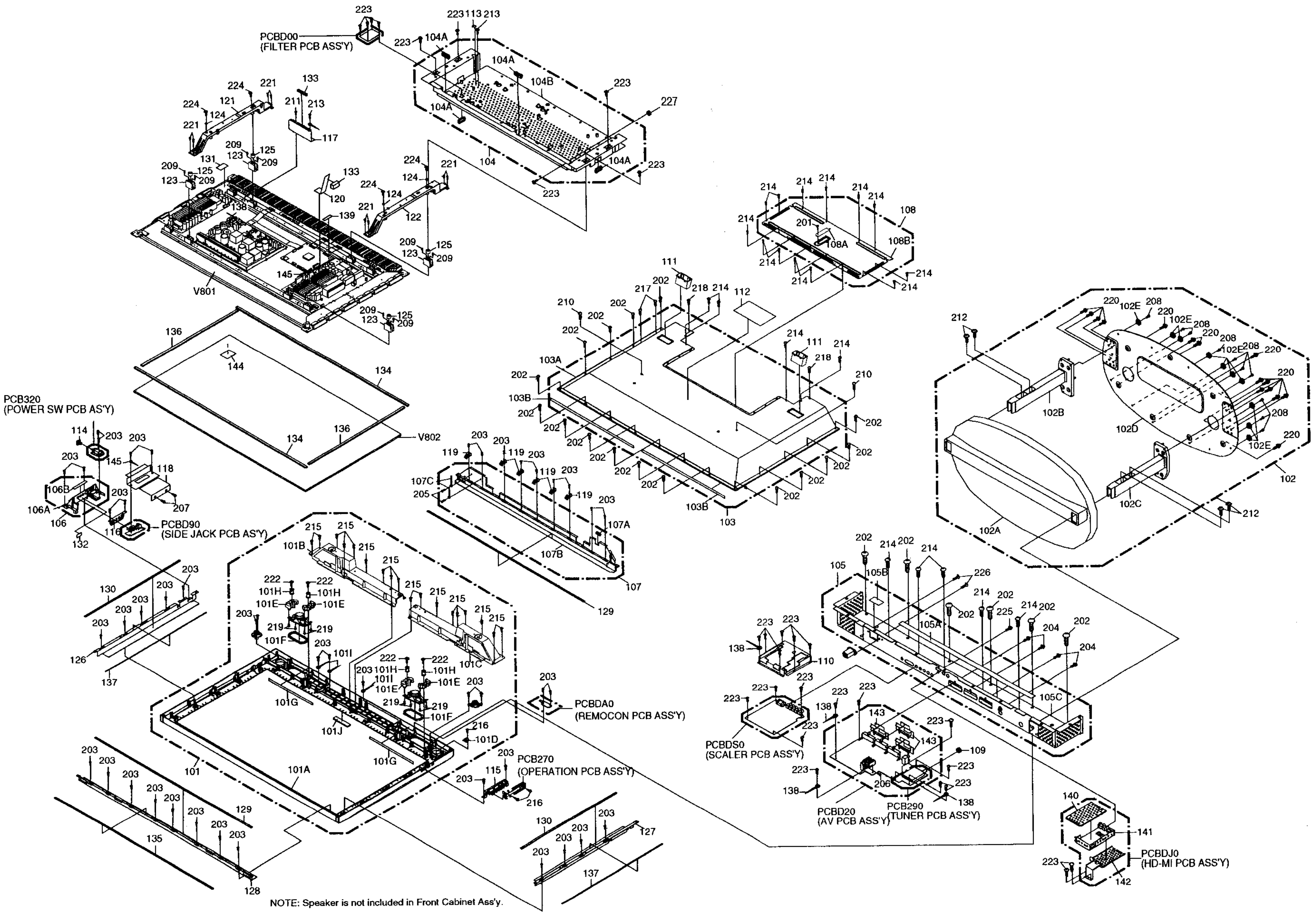
㊸



㊹

NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

MECHANICAL EXPLODED VIEW



PCBD00
(FILTER PCB ASS'Y)
223
223 113 213
104A
104B
104
227
121
122
124
221
224
133
211
213
117
209
123
125
131
120
139
138
145
V801
136
134
144
V802
PCB320
(POWER SW PCB AS'Y)
114
203
145
118
207
106
106A
106B
116
132
PCBD90
(SIDE JACK PCB AS'Y)
108
108A
108B
201
214
111
112
217
218
202
210
103
103A
103B
119
107
107A
107B
107C
205
129
101
101A
101B
101C
101D
101E
101F
101G
101H
101I
101J
215
219
222
216
130
126
137
135
128
127
PCBDA0
(REMOCON PCB ASS'Y)
PCB270
(OPERATION PCB ASS'Y)
115
102
102A
102B
102C
102D
102E
208
212
220
105
105A
105B
105C
202
204
225
226
110
PCBDS0
(SCALER PCB ASS'Y)
143
109
206
PCBD20
(AV PCB ASS'Y)
PCB290
(TUNER PCB ASS'Y)
140
141
142
PCBDJ0
(HD-MI PCB ASS'Y)

NOTE: Speaker is not included in Front Cabinet Ass'y.

MECHANICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	
101	7A7010202A	FRONT CABI ASS'Y	
101A	701WPJ1447	CABINET,FRONT	
101B	702WPA1225	COVER,SPEAKER (L)	
101C	702WPA1226	COVER,SPEAKER (R)	
101D	713WPA0390	GLASS,LED	
101E	761WPA0431	HOLDER,SPEAKER	
101F	800WF00065	CUSHION	
101G	800WQ0A092	FELT SHEET	
101H	801WR00001	DAMPER SPEAKER	
101I	899EFBA002	WIRING-CLIP	
101J	7232020787	BADGE,BRAND	
102	7A70400013A	STAND ASS'Y	
102A	704WPB0019	STAND	
102B	761WEB0005	FRAME,BOTTOM-L	
102C	761WEB0006	FRAME,BOTTOM-R	
102D	761WSA0386	ANGLE,STAND	
102E	800WRA0008	CUSHION,LEG	
103	7A70200076A	BACK CABI ASS'Y	
103A	702WSB0129	CABINET,BACK	
103B	800WQ00115	FELT SHEET	
104	7G75200034A	ANGLE,PCB ASS'Y	
104A	709WPA0038	HOLDER CORD	
104B	762WSA0092	ANGLE,PCB	
104C	899EFBA002	WIRING-CLIP	
105	7G7610047A	PLATE,JACK ASS'Y	
105A	7230008109	SHEET,JACK	
105B	7230008110	SHEET,AC INLET	
105C	761WSB0037	PLATE,JACK	
106	7A7010224A	PLATE,JACK-SIDE ASS'Y	
106A	711WPA0268	PLATE,JACK-SIDE	
106B	7230008133	SHEET,JACK-SIDE	
107	7G752A007A	SHIELD,MAIN-BOTTOM ASS'Y	
107A	709WPA0043	HOLDER,CORD	
107B	762WSA0088	SHIELD,MAIN-BOTTOM	
107C	8995034000	CORD CLIP UL CO.	
108	7G7610054B	COVER,BACK ASS'Y	
108A	702WPA1218	COVER,CONNECTOR	
108B	761WSB0041	COVER,BACK	
109	743WKAA011	SPRING TUNER	
110	752WSA0529	SHIELD,SCALER	
111	705WPA0019	HANDLE,BACK	
112	7222022713	SHEET,RATING	
113	7260000353	SHEET EARTH MARK	
114	735WPA0899	BUTTON,POWER	
115	738WPB0078	BUTTON,FRAME	
116	752WSA0554	SHIELD,JACK-SIDE	
117	752WSA0593	SHIELD,PLATE	
118	753WEAA003	SHEET CU	
119	753WUA0082	SPRING,EARTH	
120	753WUA0084	SPRING EARTH	
121	761WEA0012	FRAME,MAIN-L	
122	761WEA0013	FRAME,MAIN-R	
123	761WEA0014	HOLDER,PANEL	
124	761WPA0427	HOLDER,BUSH	
125	761WPA0428	HOLDER,CAP	
126	762WSA0085	SHIELD,MAIN-L	
127	762WSA0086	SHIELD,MAIN-R	
128	762WSA0087	SHIELD,MAIN-TOP	
129	800WFA0088	CUSHION	
130	800WFA0089	CUSHION	
131	890MP2401A	TAPE	50x35
132	890MP2401G	TAPE	30X12
133	8965TS1060	CUSHION W10/H10/L60	
134	8965TS2B70	CUSHION W6/H2/L1170	
135	8965TS2C15	CUSHION W6/H2/L1215	
136	8965TS2680	CUSHION W6/H2/L680	
137	8965TS2730	CUSHION W6/H2/L730	
138	899EFBA002	WIRING-CLIP	
139	7250000607	SHEET PE	
140	752WSA0413	HDMI SHIELD COVER	
141	752WSA0414	HDMI SHIELD BOTTOM	
142	762WSA0060	ANGLE HDMI	
143	761WSA0212	SHIELD 21PIN	
144	7230008151	SHEET,POWER LABEL	
145	8995034000	CORD CLIP UL CO.	
201	810763080S	SCREW,TAP TITE(S) BRAZIER	3x8
202	8117540A6S	SCREW,TAP TITE(B0) TRUSS	4x16
203	8110630A0U	SCREW TAP TITE(P) BRAZIER	3x10
204	810923080S	SCREW TAP TITE(B) BIND	3x8
205	810923080U	SCREW TAP TITE(B) BIND	3x8
206	8109I3080U	SCREW TAP TITE(B) WH7	3x8
207	8109I30A0U	SCREW TAP TITE(B) WH7	3x10
208	810A140A0U	SCREW WASHER(A)	M4x10
209	810A140A6U	SCREW WASHER(A)	M4x16
210	810B150A0S	SCREW,SEMS(B)	5x10
211	810B140A0U	SCREW SEMS(B)	4x10
212	810B150B0S	SCREW,SEMS(B)	5x20
213	810C14080U	SCREW WASHER C	4x8
214	810F23060S	SEMS(F)-R BIND	3x6
215	8110230A4S	SCREW,TAP TITE(P) BIND	3x14
216	811063080U	SCREW TAP TITE(P) BRAZIER	3x8
217	8110630A0S	SCREW TAP TITE(P) BRAZIER	3x10
218	8110E3080S	SCREW,TAP TITE(P) WH10	3x8
219	8117140A2U	SCREW,TAPPING(B0) PAN	4x12
220	8117540A0U	SCREW TAP TITE(B0) TRUSS	4x10
221	8117540B0U	SCREW TAP TITE(B0) TRUSS	4x20
222	8162540A6U	SCREW TAPPING (BO) WASH	ER 18
223	810B13080U	SCREW WASHER(B)	M3x8
224	8167150B0U	SCREW WASHER(B)	5x20
225	810213080S	SCREW,PAN	M3x8
226	810233080S	SCREW,FLAT	M3x8
227	830023000U	NUT M3	
---	7230008135	SHEET,CARTON	
---	791WHA0117	LAMI BAG	
---	791WHA0118	LIGHTRON SHEET	
---	792WHA0649	PACKAGE,TOP	
---	792WHA0650	PACKAGE,BOTTOM	
---	792WHA0678	PACKAGE,STAND	
---	793WCA0019	GIFT,BOX BOTTOM	
---	793WCD1740	GIFT,BOX TOP	
---	794WHAA003	HANDLE	
---	795WCAA493	PAD 300x798	
---	A3X601C975	INSTRUCTION BOOK KIT	
---	J3X60101A	INSTRUCTION BOOK(G)	
---	J3X60110A	INSTRUCTION BOOK(CZ)	
---	J3X60111A	INSTRUCTION BOOK(F)	
---	J3X60114A	INSTRUCTION BOOK(H)	
---	JB5ND400	POLYBAG INSTRUCTION(RED CAUTION)	

ELECTRICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION		
		RESISTORS		
⚠ R3900	R036K2824J	RC	820K OHM 1/2W	
		CAPACITORS		
C340	E61FF3821D	CE	820 UF 25V	
C342	E61FF3821D	CE	820 UF 25V	
C3801	E61FF2102D	CE	1000 UF 16V	
C3802	E61FF2102D	CE	1000 UF 16V	
C3803	E61FF2102D	CE	1000 UF 16V	
C3810	E61FF2102D	CE	1000 UF 16V	
C3823	E61FF4102D	CE	1000 UF 35V	
C3825	E62F03821M	CE	820 UF 25V	
C3826	E62F03821M	CE	820 UF 25V	
⚠ C3900	P2122B684M	CMP	0.68 UF 275V ECQUL	
		DIODES		
D105	DD7R20S300	DIODE,SCHOTTKY BARRIER	RB520S-30-TE61	
D109	DD7R20S300	DIODE,SCHOTTKY BARRIER	RB520S-30-TE61	
D301	D28R11FS20	DIODE	EC11FS2-TE12L	
D302	D28R1QS040	DIODE	EC31QS04-TE12L	
D303	D28R1QS040	DIODE	EC31QS04-TE12L	
D304	D28R1QS040	DIODE	EC31QS04-TE12L	
D305	D28R1QS040	DIODE	EC31QS04-TE12L	
D308	D97U06R81B	DIODE,ZENER	MTZJ6.8B T-77	
D802	DE7RB5R62B	DIODE,ZENER	UDZS5.6B TE-17	
D803	DE7RB5R62B	DIODE,ZENER	UDZS5.6B TE-17	
D804	DE7RB5R62B	DIODE,ZENER	UDZS5.6B TE-17	
D805	DE7RB5R62B	DIODE,ZENER	UDZS5.6B TE-17	
D901	D97U05R61B	DIODE,ZENER	MTZJ5.6B T-77	
D2201	0021E9Q010	LED	LTL-1BEFJ-002A	
D3206	D28R1QS040	DIODE	EC31QS04-TE12L	
D3207	D28R11FS20	DIODE	EC11FS2-TE12L	
D3601	D77R1A1R10	DIODE,VARISTA	AVRL161A1R1NT	
D3602	DE7RB5R62B	DIODE,ZENER	UDZS5.6B TE-17	
D3603	D77R1A1R10	DIODE,VARISTA	AVRL161A1R1NT	
D3604	DD7R60L400	DIODE,SCHOTTKY	RB160L-40-TE25	
D3605	DD7R60L400	DIODE,SCHOTTKY	RB160L-40-TE25	
D3609	DE7RB3R32B	DIODE,ZENER	UDZS3.3B TE-17	
D3613	DE7RB3R32B	DIODE,ZENER	UDZS3.3B TE-17	
D3801	D1VT001330	DIODE,SILICON	1SS133T-77	
D3802	D28T21DQN4	DIODE,SCHOTTKY	21DQ04N-TA2B1	
D3803	D23A0010J0	DIODE,SCHOTTKY	SBR100-10J-CBC11	
D3804	D28T0ERB20	DIODE,RECTIFIER	10ERB20-TA1B2	
D3805	D28T0ERB20	DIODE RECTIFIER	10ERB20-TA1B2	
D4205	D97U04R71B	DIODE,ZENER	MTZJ4.7B T-77	
D4206	D97U04R71B	DIODE,ZENER	MTZJ4.7B T-77	
D4207	D97U04R71B	DIODE,ZENER	MTZJ4.7B T-77	
D4209	D1VT001330	DIODE,SILICON	1SS133T-77	
D4301	DE7RB5R62B	DIODE,ZENER	UDZS5.6B TE-17	
D4302	DE7RB5R62B	DIODE,ZENER	UDZS5.6B TE-17	
		ICS		
IC101	S3X604CM01	MEMORY DATA	OEC7151A	
IC102	I9UF032290	IC	PST3229NR	
IC104	S3X604CE01	MEMORY DATA	AT24C512N-10SU-2.7	
IC300	I0QJP21510	IC	NJM2151AV	
⚠ IC301	I1MFPA2020	IC	TA2024-ASE	
IC801	I56K07A720	IC	R8J66607A72FP	
IC901	I0UF015010	IC	MM1501XNRE	
IC902	I0UF015010	IC	MM1501XNRE	
IC904	I19FF341C0	IC	MSP3410G-QA-C12-001	
IC2101	IFSK0883C0	IC	MST9883C-LF-110	
⚠ IC3201	I07F0C0WF0	IC	BA00BC0WFP-E2	
⚠ IC3202	I07F078200	IC	BD7820FP-E2	
IC3601	I1KF98D330	IC	KIA78D33F	
IC3602	I1KF98D330	IC	KIA78D33F	
IC3604	I0QJ045800	IC	NJM4580M(TE1)	
IC3605	I5PF099930	IC	SII9993CTG100	
IC3606	S3X604CE02	MEMORY DATA	BR24L02F-WE2	
IC3607	I1FF043340	IC	CS4334-KSZR	
IC3608	S3X604CE03	MEMORY DATA	BR24L32F-WE2	
IC3611	ICMF0E58R0	IC	SST89E58RD2-40-C-TQJE	
IC3612	I5CF01G080	IC	SN74AHC1G08DCKR	
IC3801	I1LF010100	IC	AL1010	
IC3803	I07F093000	IC	BD9300FV-E2	
⚠ IC3804	I0GA9XF010	IC	PQ070XF01SZH	
IC3805	I03D979950	IC	LA7995M-TLM	
IC4201	I01F05853B	IC	AN15853B-E1	
IC4202	I0UF015010	IC	MM1501XNRE	
IC4203	I0UF015010	IC	MM1501XNRE	
IC4204	I0QF025840	IC	NJM2584AM(TE1)	
		ICS		
IC4205	I0CF040530	IC	CD74HC4053PWR	
IC4301	I0UF015010	IC	MM1501XNRE	
IC4302	I0UF015010	IC	MM1501XNRE	
IC4304	I0QF02534V	IC	NJM2534V(TE2)	
IC4305	I0QF02534V	IC	NJM2534V(TE2)	
IC7202	IFKJ0LM850	IC	DTC34LM85AL	
IC8102	I05FE13080	IC	TB1308FG(DRY,EL)	
IC8103	I0UF015010	IC	MM1501XNRE	
IC8150	I0QF02534V	IC	NJM2534V(TE2)	
IC8151	I0QF02534V	IC	NJM2534V(TE2)	
IC8152	I0QF02534V	IC	NJM2534V(TE2)	
		TRANSISTORS		
Q101	TNRAC05003	COMPOUND TRANSISTOR	RT1N241C-T112-1	
Q105	TPRAC05003	COMPOUND TRANSISTOR	RT1P241C-T112-1	
Q300	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q301	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q302	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q801	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q802	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q901	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q902	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q2101	T6RA015300	TRANSISTOR,SILICON	2SA1530A-T1	
Q3205	T77J011320	TRANSISTOR,SILICON	2SB1132T100(Q,R)	
Q3206	TNAAB05003	COMPOUND TRANSISTOR	KRC102SRTK	
Q3207	T77J011320	TRANSISTOR,SILICON	2SB1132T100(Q,R)	
Q3208	TNAAB05003	COMPOUND TRANSISTOR	KRC102SRTK	
Q3603	T27T030180	FET	2SK3018T106	
Q3604	T27T030180	FET	2SK3018T106	
Q3605	T27T030180	FET	2SK3018T106	
Q3606	T27T030180	FET	2SK3018T106	
Q3607	T27T030180	FET	2SK3018T106	
Q3608	TPRAA05002	COMPOUND TRANSISTOR	RT1P431C-T112-1	or
	TPAAA05001	COMPOUND TRANSISTOR	KRA101SRTK	
Q3609	TNRAD05002	COMPOUND TRANSISTOR	RT1N441C-T112-1	or
	TNAAD05001	COMPOUND TRANSISTOR	KRC104SRTK	
Q3610	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	or
	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	
Q3611	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	or
	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	
Q3612	TNAAD05001	COMPOUND TRANSISTOR	KRC104SRTK	
Q3613	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	or
	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	
Q3801	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q3802	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q3804	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q3805	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q3806	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q3807	T67J1036K0	TRANSISTOR,SILICON	2SA1036KT146	
Q3808	T0300J6500	FET	2SJ650	
Q3813	TJ7M50P030	FET	RSS050P03_TB	
Q4200	T6RA015300	TRANSISTOR,SILICON	2SA1530A-T1	
Q4201	TNRAB05004	COMPOUND TRANSISTOR	RT1N141C-T112-1	
Q4203	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q4205	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q4206	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q4207	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q4208	T27T030180	FET	2SK3018T106	
Q4209	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q4210	T27T030180	FET	2SK3018T106	
Q4211	T6RA015300	TRANSISTOR,SILICON	2SA1530A-T1	
Q4212	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q4213	T6RA015300	TRANSISTOR,SILICON	2SA1530A-T1	
Q4214	TPRAC05003	COMPOUND TRANSISTOR	RT1P241C-T112-1	
Q4215	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q4216	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q4217	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q4218	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q4219	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q4221	T6RA015300	TRANSISTOR,SILICON	2SA1530A-T1	
Q4223	TPRAC05003	COMPOUND TRANSISTOR	RT1P241C-T112-1	
Q4224	TNAAB05003	COMPOUND TRANSISTOR	KRC102SRTK	
Q4225	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q4226	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q4229	TNAAB05003	COMPOUND TRANSISTOR	KRC102SRTK	
Q4232	TNRAB05004	COMPOUND TRANSISTOR	RT1N141C-T112-1	
Q4233	TNRAB05004	COMPOUND TRANSISTOR	RT1N141C-T112-1	
Q4301	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	

ELECTRICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	
TRANSISTORS			
Q4302	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1
Q4304	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1
Q4305	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1
Q8101	T6RA015300	TRANSISTOR,SILICON	2SA1530A-T1
Q8102	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1
Q8103	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1
Q8105	T6RA015300	TRANSISTOR,SILICON	2SA1530A-T1
Q8106	T6RA015300	TRANSISTOR,SILICON	2SA1530A-T1
COILS &TRANSFORMERS			
L300	021W0G100M	COIL	10 UH
L301	021W0G100M	COIL	10 UH
L302	021W0G100M	COIL	10 UH
L303	021W0G100M	COIL	10 UH
L901	02167F100J	COIL	10 UH
L902	02167F270J	COIL	27 UH
L903	02167F100J	COIL	10 UH
L904	02167F100J	COIL	10 UH
L2101	0216S8220K	COIL	22 UH
L2102	0216S8220K	COIL	22 UH
L2103	0216S8470K	COIL	47 UH
L2106	0216S45R6J	COIL	5.6 UH
L2107	0216S8220K	COIL	22 UH
L3601	02D6000068	COIL,CHOKE	ACM2012D-900-2P-T00
L3602	02D6000068	COIL,CHOKE	ACM2012D-900-2P-T00
L3603	02D6000068	COIL,CHOKE	ACM2012D-900-2P-T00
L3604	02D6000068	COIL,CHOKE	ACM2012D-900-2P-T00
L3801	02167E220K	COIL	22 UH
L3802	02167E220K	COIL	22 UH
L3803	02167E220K	COIL	22 UH
L3804	02167E220K	COIL	22 UH
L3805	0214646R8M	COIL	6.8 UH
L3806	021404150M	COIL	15 UH
L3807	02167E100K	COIL	10 UH
L3808	021W0G100M	COIL	10 UH
L3809	0214646R8M	COIL	6.8 UH
⚠ L3900	029X000138	COIL,LINE FILTER	SN12-500
⚠ L3901	029X000138	COIL,LINE FILTER	SN12-500
L4200	021LA6220J	COIL	22 UH
L4202	02167F470J	COIL	47 UH
L4203	02167F470J	COIL	47 UH
L4206	02167F470J	COIL	47 UH
L4207	02167F470J	COIL	47 UH
L4209	021LA6220J	COIL	22 UH
L4210	021LA6220J	COIL	22 UH
L4211	021LA6220J	COIL	22 UH
L4212	021LA6220J	COIL	22 UH
L4213	021LA6220J	COIL	22 UH
L4214	021LA6220J	COIL	22 UH
L4215	021LA6220J	COIL	22 UH
L4216	021LA6220J	COIL	22 UH
L4217	021LA6220J	COIL	22 UH
L4218	021LA6220J	COIL	22 UH
L4219	02167F100J	COIL	10 UH
L4220	02167F100J	COIL	10 UH
L4224	02167F100J	COIL	10 UH
L4225	02167F470J	COIL	47 UH
L4226	02167F470J	COIL	47 UH
L4227	021LA6220J	COIL	22 UH
L4228	021LA6220J	COIL	22 UH
L4229	021LA6220J	COIL	22 UH
L4230	021LA6220J	COIL	22 UH
L4231	021LA6220J	COIL	22 UH
L4232	02167F100J	COIL	10 UH
L4236	02167F470J	COIL	47 UH
L4301	0216S8470K	COIL	47 UH
L4306	0216S8220K	COIL	22 UH
L4307	0216S8220K	COIL	22 UH
L7201	0216S8470K	COIL	47 UH
L7202	0216S8470K	COIL	47 UH
L7203	0216S8470K	COIL	47 UH
L8102	0216S8470K	COIL	47 UH
L8103	0216S8470K	COIL	47 UH
L8104	0216S8470K	COIL	47 UH
L8105	0216S8220K	COIL	22 UH
L8150	0216S8470K	COIL	47 UH
JACKS			
J3601	060J421037	RCA JACK	MTJ-032-05A-32-FE

REF. NO.	PART NO.	DESCRIPTION	
JACKS			
J3602	060J421030	RCA JACK	MTJ-032-05A-31-FE
J4200	060J131021	HEADPHONE JACK	MSJ-035-08D_PC(O87)
J4203	060J411034	RCA JACK	MSP-242V2-01NI-FE_LF
J4204	063D100050	SOCKET,21PIN	MRC-021V-07_A
J4205	063D100050	SOCKET,21PIN	MRC-021V-07_A
J4206	063E700012	JACK	S4-25SZ
J4207	060K421056	RCA JACK	AV-5A-66H
J4208	060K421058	RCA JACK	AV-5A-68H
J4209	060K421057	RCA JACK	AV-5A-67H
J4210	063D100050	SOCKET,21PIN	MRC-021V-07_A
J4301	060J131019	HEADPHONE JACK	MSJ-2000B_AG(O87)
J4302	060J421037	RCA JACK	MTJ-032-05A-32-FE
J4303	060J421030	RCA JACK	MTJ-032-05A-31-FE
J4304	060J421044	RCA JACK	MTJ-032-05A-50-FE
J4305	060J421043	RCA JACK	MTJ-032-05A-29-FE
J4306	060J421030	RCA JACK	MTJ-032-05A-31-FE
SWITCHES			
⚠ SW500	0530105019	SWITCH	ESB92S22B
SW2201	0504101T34	SWITCH,TACT	EVQ21505R
SW2202	0504101T34	SWITCH,TACT	EVQ21505R
SW2203	0504101T34	SWITCH,TACT	EVQ21505R
SW2204	0504101T34	SWITCH,TACT	EVQ21505R
SW2205	0504101T34	SWITCH,TACT	EVQ21505R
SW2206	0504101T34	SWITCH,TACT	EVQ21505R
P.C.BOARD ASSEMBLIES			
PCB270	A3X608C270B	PCB ASS'Y	CEF189A
PCB290	A3X608C290B	PCB ASS'Y	CEF193A
PCB320	A3X608C320B	PCB ASS'Y	CEF190A
PCBD00	A3X608CD00B	PCB ASS'Y	CEE124A
PCBD20	A3X608CD20B	PCB ASS'Y	CMF085A
PCBD90	A3X608CD90B	PCB ASS'Y	CEF191A
PCBDA0	A3X608CDA0B	PCB ASS'Y	CEF192A
PCBDJ0	A3X608CDJ0B	PCB ASS'Y	CED011A
PCBDS0	A3X608CDS0B	PCB ASS'Y	CEE087A
MISCELLANEOUS			
B801	024HC56005	CORE,BEADS	FCM1608CF-600T06
B802	024HC56005	CORE,BEADS	FCM1608CF-600T06
B803	024HC56005	CORE,BEADS	FCM1608CF-600T06
B804	024HC56005	CORE,BEADS	FCM1608CF-600T06
B805	024AC5181J	CORE,BEADS	BLM18PG181SN1D
B2101	024HC56005	CORE,BEADS	FCM1608CF-600T06
B3201	024AC5181J	CORE,BEADS	BLM18PG181SN1D
B3202	024AC5181J	CORE,BEADS	BLM18PG181SN1D
B3203	024AC5181J	CORE,BEADS	BLM18PG181SN1D
B3204	024AC5181J	CORE,BEADS	BLM18PG181SN1D
B3205	024AC5181J	CORE,BEADS	BLM18PG181SN1D
B3206	024AC5181J	CORE,BEADS	BLM18PG181SN1D
B3207	024AC5181J	CORE,BEADS	BLM18PG181SN1D
B3601	024HC36001	CORE,BEADS	HCB2012K-600T25
B3602	024HC36001	CORE,BEADS	HCB2012K-600T25
B3603	024HC36001	CORE,BEADS	HCB2012K-600T25
B3604	024HC36001	CORE,BEADS	HCB2012K-600T25
B3608	024HC36001	CORE,BEADS	HCB2012K-600T25
B3609	024HC36001	CORE,BEADS	HCB2012K-600T25
B3610	024HC31022	CORE,BEADS	FCM2012H-102T04
B3611	024HC31022	CORE,BEADS	FCM2012H-102T04
B3801	024HT03553	CORE,BEADS	W5RH3.5X5X1.0
B4200	024HT03563	CORE,BEADS	W4BRH3.5X6X1.0X2
B4204	024HC56013	CORE,BEADS	FCM1608KF-601T02
B4205	024HC56013	CORE,BEADS	FCM1608KF-601T02
B4206	024HT03563	CORE,BEADS	W4BRH3.5X6X1.0X2
B4207	024HT03563	CORE,BEADS	W4BRH3.5X6X1.0X2
B4208	024HC56005	CORE,BEADS	FCM1608CF-600T06
B4209	024HC56005	CORE,BEADS	FCM1608CF-600T06
B4210	024HC56005	CORE,BEADS	FCM1608CF-600T06
B4212	024HT03563	CORE,BEADS	W4BRH3.5X6X1.0X2
B4213	024HT03563	CORE,BEADS	W4BRH3.5X6X1.0X2
B4300	0246C51024	CORE,BEADS	MMZ1608R102CT
B4301	0246C51024	CORE,BEADS	MMZ1608R102CT
B4302	0246C51024	CORE,BEADS	MMZ1608R102CT
B4303	024HC56005	CORE,BEADS	FCM1608CF-600T06
B4304	024HC56005	CORE,BEADS	FCM1608CF-600T06
B4305	024HC56005	CORE,BEADS	FCM1608CF-600T06
B4306	024HC56005	CORE,BEADS	FCM1608CF-600T06
B4307	0246C51024	CORE,BEADS	MMZ1608R102CT
B4308	0246C51024	CORE,BEADS	MMZ1608R102CT
B4309	024HC56005	CORE,BEADS	FCM1608CF-600T06

ELECTRICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION		
		MISCELLANEOUS		
B4310	024HC56005	CORE,BEADS	FCM1608CF-600T06	
B4316	0246C51024	CORE,BEADS	MMZ1608R102CT	
B6002	024HC56013	CORE,BEADS	FCM1608KF-601T02	
B6511	024HC56013	CORE,BEADS	FCM1608KF-601T02	
B7202	024HC56005	CORE,BEADS	FCM1608CF-600T06	
BT001	141R003018	BATTERY,MANGAN	GR6M	
BT002	141R003018	BATTERY,MANGAN	GR6M	
CD301	06CU13A201	CORD,CONNECTOR	CU13A201	
CD303	06CU12A601	CORD,CONNECTOR	CU12A601	
CD801	06CU011207	CORD,CONNECTOR	CU011207	or
	06CH011208	CORD,CONNECTOR	CH011208	
CD802	06CU011207	CORD,CONNECTOR	CU011207	or
	06CH011208	CORD,CONNECTOR	CH011208	
CP101	069S250629	CONNECTOR PCB SIDE	A2001WV2-5P	
CP102	069S2A0629	CONNECTOR PCB SIDE	A2001WV2-10P	
CP103	069S270629	CONNECTOR PCB SIDE	A2001WV2-7P	
CP300	069S250620	CONNECTOR PCB SIDE	A2001WV2-5P-BLK	
CP301	069S130419	CONNECTOR PCB SIDE	A2502WV2-3P	
CP303	069S120419	CONNECTOR PCB SIDE	A2502WV2-2P	
CP801	069EVT3030	CONNECTOR PCB SIDE	00_6232_029_006_800+	
CP802	069EVU3030	CONNECTOR PCB SIDE	00_6232_030_006_800+	
CD2201	06CU23A001	CORD,CONNECTOR	CU23A001	
CD3601	06CU1K1403	CORD,CONNECTOR	CU1K1403	
CD3800	06CUU37101	CORD,CONNECTOR	CUU37101	
CD3801	06CU642601	CORD,CONNECTOR	CU642601	
CD3802	06CU622601	CORD,CONNECTOR	CU622601	
CD3803	06CU6C2401	CORD,CONNECTOR	CU6C2401	
CD3804	06CU672601	CORD,CONNECTOR	CU672601	
CD3805	06E3YB0004	CABLE	HD-19DVI30-200B-A	
CD3807	06CU2B1501	CORD,CONNECTOR	CU2B1501	
CD3808	06CUU37101	CORD,CONNECTOR	CUU37101	
⚠ CD3810	120Q054803	CORD,AC	P206-1270-3	or
	120G054801	CORD,AC	0G054801	
CD3900	06CUU21001	CORD,CONNECTOR	CUU21001	
CD4201	06CU28A002	CORD,CONNECTOR	CU28A002	
CD4202	06CU257901	CORD,CONNECTOR	CU257901	
CD4203	122H0T0801	CORD,JUMPER	2H0T0801	
CD4204	122H0U0802	CORD,JUMPER	2H0U0802	
CD4205	06CU25A103	CORD,CONNECTOR	CU25A103	
CD4206	122Q312102	CORD,JUMPER	TD-OR0210Z	
CD7203	06CUZV7001	CORD,CONNECTOR	CUZV7001	
CP2200	069S230629	CONNECTOR PCB SIDE	A2001WV2-3P	
CP2201	069S250639	CONNECTOR PCB SIDE	A2001WR2-5P	
CP2203	069S230629	CONNECTOR PCB SIDE	A2001WV2-3P	
CP3201	069S2B0629	CONNECTOR PCB SIDE	A2001WV2-11P	
CP3601	069HYJ3010	CONNECTOR PCB SIDE	DC1R019JDA	
CP3604	069S290639	CONNECTOR PCB SIDE	A2001WR2-9P	
CP3800	069432001A	CONNECTOR PCB SIDE	3-176976-1	
CP3801	069S140019	CONNECTOR PCB SIDE	A2501WV2-4P	
CP3802	069S120019	CONNECTOR PCB SIDE	A2501WV2-2P	
CP3803	069S1C0019	CONNECTOR PCB SIDE	A2501WV2-12P	
CP3804	069S170019	CONNECTOR PCB SIDE	A2501WV2-7P	
CP3807	069S2B0629	CONNECTOR PCB SIDE	A2001WV2-11P	
CP3808	069S320419	CONNECTOR PCB SIDE	A3963WV2-3PD	
CP3900	069S320419	CONNECTOR PCB SIDE	A3963WV2-3PD	
CP3901	069S320419	CONNECTOR PCB SIDE	A3963WV2-3PD	
CP4200	069S280629	CONNECTOR PCB SIDE	A2001WV2-8P	
CP4201	069S280629	CONNECTOR PCB SIDE	A2001WV2-8P	
CP4202	069S250629	CONNECTOR PCB SIDE	A2001WV2-5P	
CP4203	069EVT3030	CONNECTOR PCB SIDE	00_6232_029_006_800+	
CP4204	069EVU3030	CONNECTOR PCB SIDE	00_6232_030_006_800+	
CP4205	069S250620	CONNECTOR PCB SIDE	A2001WV2-5P-BLK	
CP4301	069S1K0019	CONNECTOR PCB SIDE	A2501WV2-20P	
CP4302	0694S15017	CONNECTOR PCB SIDE	1-1734344-1	
CP6001	06CK7D0301	CORD,CONNECTOR	TWG-P13P-A1	
CP6002	06977DM020	CONNECTOR PCB SIDE	127301113K2	
CP7202	069HTR001A	CONNECTOR PCB SIDE	FI-TWE31PB-VF	
ELD001	124116281A	EYE LET	XRY16X28BD	
ELD002	124120301A	EYE LET	XRY20X30BD	
NR801	110P4000M4	R,NETWORK	4D03WGJ0000T5E	
NR802	110P4470M4	R,NETWORK	4D03WGJ0470T5E	
NR803	110P4470M4	R,NETWORK	4D03WGJ0470T5E	
NR804	110P4470M4	R,NETWORK	4D03WGJ0470T5E	
NR805	110P4470M4	R,NETWORK	4D03WGJ0470T5E	
NR806	110P4470M4	R,NETWORK	4D03WGJ0470T5E	
NR807	110P4470M4	R,NETWORK	4D03WGJ0470T5E	
NR2101	110P4101M4	R,NETWORK	4D03WGJ0101T5E	
NR2102	110P4101M4	R,NETWORK	4D03WGJ0101T5E	
NR2103	110P4101M4	R,NETWORK	4D03WGJ0101T5E	
NR2104	110P4101M4	R,NETWORK	4D03WGJ0101T5E	
NR2105	110P4101M4	R,NETWORK	4D03WGJ0101T5E	
NR2106	110P4101M4	R,NETWORK	4D03WGJ0101T5E	
NR7203	110P4220M4	R,NETWORK	4D03WGJ0220T5E	
NR7204	110P4220M4	R,NETWORK	4D03WGJ0220T5E	
OS2200	077A033001	REMOTE RECEIVER	ROM-V338TAO	or
	0773071006	REMOTE RECEIVER	RPM7138-SH8	
⚠ SP301	0701016002	SPEAKER	EAS12D175B	
⚠ SP302	0701016002	SPEAKER	EAS12D175B	
⚠ SP303	0701026001	SPEAKER	EAS5PH134C	
⚠ SP304	0701026001	SPEAKER	EAS5PH134C	
TM101	076R0MM010	TRANSMITTER	R56-1201	
TR301	02AHB9A972	CORE,FERRITE	W5T29X7.5X19	
TR302	02AHB9A972	CORE,FERRITE	W5T29X7.5X19	
TR2201	02AHB9A972	CORE,FERRITE	W5T29X7.5X19	
TR4201	02A6C0A3Y1	CORE,FERRITE	ZCAT3035-1330	
TR4207	02A6B3A3T1	CORE,FERRITE	ZCAT2436-1330A	
TR4208	02A6B3A3T1	CORE,FERRITE	ZCAT2436-1330A	
TR4209	02A6C0A3Y1	CORE,FERRITE	ZCAT3035-1330	
TR4210	02A6C0A3Y1	CORE,FERRITE	ZCAT3035-1330	
TR6501	02A6C0A3Y1	CORE,FERRITE	ZCAT3035-1330	
⚠ TU6001	0163Y03003	RF UNIT	TAFM-W122D_C	
V801	09HD205001	PDP	PDP50X3####	
V802	09JE250001	PDP FILTER	FG510NAA-05	
X101	100WT01611	CRYSTAL	HC-49/U-S	
X801	100YT05401	CRYSTAL	FCX-03	
X901	100CT01803	CRYSTAL	HC-49/U-S	
X3601	100CT01101	CRYSTAL	HC-49/U-S	
X8101	100CT3R536	CRYSTAL	HC-49/U	

RESISTOR

RC.................. CARBON RESISTOR

CAPACITORS

CC.................. CERAMIC CAPACITOR
CE.................. ALUMI ELECTROLYTIC CAPACITOR
CP.................. POLYESTER CAPACITOR
CPP................. POLYPROPYLENE CAPACITOR
CPL................. PLASTIC CAPACITOR
CMP................. METAL POLYESTER CAPACITOR
CMPL................ METAL PLASTIC CAPACITOR
CMPP................ METAL POLYPROPYLENE CAPACITOR

SPEC.NO.	M3X6-08C
O/R NO.	U623521